Life Expectancy

Data Years: 1996-1998

U. S. Department of Health and Human Services
Indian Health Service
Office of Public Health
Office of Program Support
Division of Program Statistics
Demographic Statistics Team

LIFE TABLES FOR THE AMERICAN INDIAN AND ALASKA NATIVE IHS SERVICE POPULATION BY IHS AREA AND GENDER,1996-1998, WITH COMPARABLE DATA FOR THE U. S. ALL RACES, WHITE, AND BLACK POPULATIONS, 1997

U. S. Department of Health and Human Services
Indian Health Service
Office of Public Health
Office of Program Support
Division of Program Statistics

This report was prepared by Barbara A. Moore, Statistical Assistant, Demographic Statistics Team (DST), Division of Program Statistics.

Additional American Indian and Alaska Native health status Information can be obtained from the Demographic Statistics Team.

Specific responsibilities are as follows:
Edna L. Paisano, Principal Statistician and Director, Division of Program Statistics
Jo Ann N. Pappalardo, Demographic Statistics Acting Team Leader (DST) /Computer Systems Analyst
Colleen M. Ryan, Health Statistician, Demographic Statistics Team
Barbara A. Moore, Statistical Assistant, Demographic Statistics Team
Priscilla Sandoval, Program Analyst, Division of Program Statistics

Indian Health Service
Office of Public Health
Office of Program Support
Division of Program Statistics
12300 Twinbrook Parkway, Suite 450
Rockville, Maryland 20852
Phone: 301-443-1180
Fax: 301-443-1522/4087

This publication, other IHS statistical publications, and links to IHS data files are available on the Program Statistics Web Site: *http://www.ihs.gov/NonMedicalPrograms/IHS_Stats/IHS_HQ_Publications.asp*

TABLE OF CONTENTS

INTRODUCTION

Life tables are a comprehensive measure of the effect of mortality on life expectancy and are a more refined means of measuring mortality levels in a population than crude, age-specific, or age-adjusted mortality rates. They allow comparison of mortality rates between populations without requiring adjustment to an actual standard population in order to account for differences in age distributions between those populations.

Life tables are routinely prepared by the National Center for Health Statistics (NCHS) by race/ethnicity and gender. NCHS does not, however, prepare life tables for the American Indian and Alaska Native (AI/AN) population. The purpose of this report is to provide life tables for the AI/AN population residing in the service area in which the Indian Health Service (IHS) has responsibilities and to make comparisons between Indian life expectancy and the all races, white, and black U.S. populations. This report also includes a discussion of life table definitions and methodology in order to provide a better understanding of life table data. The life tables included in this report are based on three years of data because of the small numbers of American Indian deaths that occur during a single calendar year.

The starting point for the construction of a life table is a series of age-specific mortality rates developed for that population. All other functions in the table evolve from these rates. The other functions include the number of survivors, the number of deaths, the number of person-years lived at a given age, the number of person-years lived after reaching that age, and the expected future life for a person reaching that age.

Life expectancy is not to be confused with life span. Life expectancy, simply put, is the number of years an average person can expect to live and is measurable using current mortality statistics. Life expectancy varies across generations, countries around the world, by race, and by gender. Life span is the maximum number of years a species expects to live under optimum conditions. Life span has probably not changed in recent times; it is a concept that cannot be measured easily.

TYPES OF LIFE TABLES

GENERATION VERSUS PERIOD LIFE TABLES

It is important to understand some basic concepts regarding life tables. There are two different types of life tables: the generation or cohort life table and the current or period life table. The generation life table is based on the mortality experience of a particular birth cohort, which includes all persons born in a particular year. Preparation of a generation life table requires use of the mortality rates actually experienced by that cohort at each age during its lifetime, until all persons in the cohort have died. It provides a longitudinal picture of the actual lifetime experience of a particular group of people. It is difficult to prepare since it requires compilation of mortality data over a very long period of time, (i.e. 100 years or more), depending on the

number of years the last surviving member of the cohort lives. Because of the extended time period required to complete generation life tables, such tables are seldom prepared.

The current or period life table presented in this report is more commonly used as it is based on a "synthetic" instead of a real birth cohort. A synthetic cohort consists of a population distributed by age as it exists at a particular point in time and is cross-sectional in that it crosses numerous generations and includes people born in many different years. A period life table is representative of the combined mortality experience by age of a cross-section of population at a particular point in time, and is developed based on the applicable age-specific mortality rates for a time era. As such, a synthetic cohort does not represent the actual experience of a real cohort. The current life table provides a "snap shot" of current mortality experience and provides an indicator of the long-term results should current mortality rates prevail.

Both current and generation life tables assume a cohort of 100,000 live births as a starting point. All values generated by the life table evolve from the original 100,000 births.

The current life table itself can be interpreted in two ways. The first interpretation is a birth cohort of 100,000 live births aging over time and subject to the mortality conditions shown over its lifetime. The second interpretation is a "stationary population" in which there are 100,000 live births every year with each birth cohort subject to the same age-specific mortality rates over its lifetime, resulting in a population with an unchanging number and age distribution.

COMPLETE VERSUS ABRIDGED LIFE TABLES

Complete life tables contain data by single year of age; they use counts of the population enumerated during a decennial census and deaths for a three-year period centered on the decennial census year. Abridged life tables contain data by five-year age intervals and are usually prepared annually; however, for this report they have been prepared using three-year aggregated data because of the relatively small number of AI/ANs residing in the counties included in the IHS service delivery area. Annual abridged life tables are prepared by using the most recent decennial life table as a standard and adjusting abridged life table functions to that standard.

The methodology used here was developed by NCHS and is referred to as, "The revised method of computing life tables by reference to a 'standard' table." The appendix provides a brief description of the methodology.

NCHS developed a report that discusses the methodology in detail.[1] Guidance on how to interpret a life table is also included in the appendix.

---

[1] Comparison of Two Methods of Constructing Abridged Life Tables by Reference to a "Standard" Table. Public Health Service Publication Number 1000, Series 2, Number 4. Revised March 1996.

ADJUSTING FOR MISREPORTING OF INDIAN RACE ON STATE DEATH CERTIFICATES

Misreporting of Indian race on state death certificates occurs, especially in areas distant from traditional Indian reservations. In order to determine the degree and scope of the misreporting, IHS conducted a study utilizing the National Death Index (NDI) maintained by NCHS. The results of the NDI study provide sufficient numbers to calculate adjustments to the number of deaths by sex for each IHS Area, for IHS overall, and for five-year age groups. **Adjusted life expectancies** are considered to be a more accurate representation of Indian life expectancy than unadjusted life expectancies since they are "adjusted" to account for misreporting of American Indian race on state death certificates. Therefore, the analyses in this report are based upon the adjusted life expectancies. For more information on adjusting for misreporting of Indian race on state death certificates, see the *Appendix*.

DATA PRESENTATIONS

A summary table (Table 1) and 12 charts (Charts A1-D3) for AI/AN life expectancies at birth and for persons at several age groups (20-24 years, 40-44 years, and 60-64 years) are presented in this report. Data are provided by gender (all AI/AN, male, and female), and for each IHS Area. For comparison, the table and accompanying charts show the life expectancies for U. S. all races, U. S. white, and U. S. black populations. Life expectancies for other five-year age groups, in addition to those selected for review in this report, are provided in the detailed life expectancy tables found in the *Appendix* at the end of the report.

The life expectancy data presented in this report are based upon data that have been adjusted for the misreporting of AI/AN race on the death certificate. Unadjusted life expectancy data are included in Table 1. Detailed unadjusted life expectancy tables for each of the 12 IHS Areas are available upon request from the Division of Program Statistics. See *Introduction* for contact information.

LIFE EXPECTANCY AT BIRTH (TABLE 1 AND CHARTS A1, A2, AND A3)

Table A. Life expectancy at birth, 1996-98

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	California	75.0
2	Nashville	73.6
3	Albuquerque	72.9
4	Oklahoma	72.8
5	Navajo	72.3
6	Portland	70.6
7	Alaska	69.5
8	Phoenix	69.2
9	Billings	68.0
10	Tucson	66.1
11	Aberdeen	65.4
12	Bemidji	65.3

Life expectancy at birth for all twelve IHS Areas was 70.6 years (1996-98). Comparable data for U.S. population (1997) were all races 76.5, white 77.1, and black 71.1.

For each IHS Area, life expectancies for females were higher than those for males. To measure the magnitude of this difference, ratios between the female life expectancies and the male life expectancies by IHS Area are presented (see Table 1). These ratios varied from 1.07 in Nashville to 1.15 in Tucson. For all twelve IHS Areas this ratio was 1.10 (1996-98). The comparable female to male ratios for the (1997) U.S. all races, white, and black populations were 1.08, 1.08, and 1.11 respectively.

YEARS OF LIFE REMAINING FOR PERSONS 20-24 YEARS OF AGE (TABLE 1 AND CHARTS B1, B2, AND B3)

Table B. Years of life remaining at 20-24 years, 1996-98

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	California	56.4
2	Albuquerque	54.2
	Nashville	54.2
4	Oklahoma	54.1
5	Navajo	53.7
6	Portland	52.1
7	Alaska	51.3
8	Phoenix	50.8
9	Billings	49.5
10	Tucson	47.7
11	Aberdeen	47.3
12	Bemidji	47.1

The years of life remaining for the age group 20-24 years for all twelve IHS Areas was 52.2 years. Comparable data for U.S. populations (1997) were all races 52.8, white 53.3, and black 48.2 years.

Ratios of female to male years of life remaining for AI/AN in the age group 20-24 years varied from 1.10 for Nashville to 1.18 for Aberdeen and Tucson. For all twelve IHS Areas this ratio was 1.13. The comparable ratios for the U.S. all races, white, and black populations were 1.11, 1.10, and 1.15, respectively.

YEARS OF LIFE REMAINING FOR PERSONS 40-44 YEARS OF AGE (TABLE 1 AND CHARTS C1, C2, AND C3)

Table C. Years of life remaining at 40-44 years, 1996-98

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	California	38.3
2	Albuquerque	36.8
3	Navajo	36.7
4	Oklahoma	36.3
5	Nashville	36.0
6	Portland	34.3
7	Alaska	33.7
8	Phoenix	33.6
9	Billings	32.1
10	Tucson	31.2
11	Aberdeen	30.2
12	Bemidji	29.5

The years of life remaining for age group 40-44 years for all twelve IHS Areas was 34.6 years. Comparable data for U.S. populations (1997) were all races 34.1, white 34.5, and black 30.5.

Ratios of female to male years of life remaining for AI/AN in the age group 40-44 years varied from 1.09 for Phoenix to 1.20 for Aberdeen. For the twelve IHS Areas this ratio was 1.16. The comparable ratios for the U.S. all races, white, and black populations were 1.14, 1.14, and 1.20 respectively.

YEARS OF LIFE REMAINING FOR PERSONS 60-64 YEARS OF AGE (TABLE 1 AND CHARTS D1, D2, AND D3)

Table D. Years of life remaining at 60-64 years, 1996-98

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	California	22.3
2	Navajo	21.2
3	Oklahoma	21.1
4	Albuquerque	21.0
5	Nashville	20.5
6	Phoenix	18.9
7	Portland	18.6
8	Alaska	18.2
9	Tucson	17.4
10	Billings	16.8
11	Aberdeen	16.4
12	Bemidji	15.3

The years of life remaining for age group 60-64 years for all twelve IHS Areas was 19.4 years. Comparable data for U.S. populations (1997) were all races 17.7, white 17.8, and black 16.1 years.

Ratios of female to male years of life remaining for AI/AN in the age group 60-64 varied from 1.08 for Phoenix to 1.27 for Oklahoma. For the twelve IHS Areas this ratio was 1.19. The comparable ratios for the U.S. all races, white, and black populations were 1.21, 1.21 and 1.24 respectively.

Table 1. LIFE EXPECTANCY AT SELECTED AGES AND RELATIVE RANKINGS OF AMERICAN INDIANS AND ALASKA NATIVES RESIDING IN IHS SERVICE AREAS, 1996-1998

A. LIFE EXPECTANCY AT BIRTH (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (All 12 Areas)	72.9	70.6		69.5	67.4		76.3	74.2		1.10
Aberdeen	65.9	65.4	(11)	61.7	61.2	(12)	70.3	69.9	(11)	1.14
Alaska	70.3	69.5	(7)	67.2	66.3	(8)	73.7	73.0	(7)	1.10
Albuquerque	73.8	72.9	(3)	70.0	69.3	(3)	77.4	76.7	(2)	1.11
Bemidji	68.0	65.3	(12)	65.1	62.6	(10)	70.9	68.3	(12)	1.09
Billings	68.8	68.0	(9)	65.4	64.6	(9)	72.2	71.4	(9)	1.11
California	80.5	75.0	(1)	77.2	71.4	(1)	83.5	78.4	(1)	1.10
Nashville	75.0	73.6	(2)	72.5	70.4	(2)	77.4	75.4	(5)	1.07
Navajo	72.4	72.3	(5)	68.2	68.0	(5)	76.7	76.5	(3)	1.13
Oklahoma	77.9	72.8	(4)	74.3	69.3	(3)	81.1	76.0	(4)	1.10
Phoenix	69.9	69.2	(8)	67.2	66.4	(7)	72.7	72.0	(8)	1.08
Portland	72.1	70.6	(6)	69.5	67.9	(6)	74.7	73.3	(6)	1.08
Tucson	66.4	66.1	(10)	62.0	61.6	(11)	70.8	70.7	(10)	1.15
U.S. All Races (1997)	*76.5*			*73.6*			*79.4*			*1.08*
U.S. White (1997)	*77.1*			*74.3*			*79.9*			*1.08*
U.S. Black (1997)	*71.1*			*67.2*			*74.7*			*1.11*

B. LIFE EXPECTANCY, PERSONS 20-24 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (12 Areas)	54.3	52.2		51.0	49.1		57.4	55.5		1.13
Aberdeen	47.8	47.3	(11)	43.8	43.4	(12)	51.7	51.4	(12)	1.18
Alaska	52.1	51.3	(7)	49.4	48.6	(7)	55.0	54.3	(7)	1.12
Albuquerque	55.1	54.2	(2)	51.7	51.0	(3)	58.4	57.7	(3)	1.13
Bemidji	49.5	47.1	(12)	47.0	44.6	(10)	52.1	49.7	(11)	1.11
Billings	50.4	49.5	(9)	47.5	46.7	(9)	53.1	52.3	(9)	1.12
California	61.3	56.4	(1)	58.0	53.1	(1)	64.3	59.5	(1)	1.12
Nashville	56.1	54.2	(2)	53.4	51.7	(2)	58.6	57.0	(5)	1.10
Navajo	53.9	53.7	(5)	49.9	49.7	(5)	58.0	57.8	(2)	1.16
Oklahoma	58.6	54.1	(4)	55.1	50.6	(4)	61.8	57.3	(4)	1.13
Phoenix	51.5	50.8	(8)	49.0	48.2	(8)	54.0	53.3	(8)	1.11
Portland	53.3	52.1	(6)	50.8	49.5	(6)	55.8	54.7	(6)	1.11
Tucson	48.0	47.7	(10)	44.2	43.8	(11)	51.8	51.6	(10)	1.18
U.S. All Races (1997)	*52.8*			*50.1*			*55.4*			*1.11*
U.S. White (1997)	*53.3*			*50.6*			*55.8*			*1.10*
U.S. Black (1997)	*48.2*			*44.7*			*51.4*			*1.15*

( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

Table 1. *(Continued)* LIFE EXPECTANCY AT SELECTED AGES AND RELATIVE RANKINGS OF AMERICAN INDIANS AND ALASKA NATIVES RESIDING IN IHS SERVICE AREAS, 1996-1998

C. LIFE EXPECTANCY, PERSONS 40-44 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	*ADJ*	*RANK (ADJ)*	*UNADJ*	*ADJ*	*RANK (ADJ)*	*UNADJ*	*ADJ*	*RANK (ADJ)*	*(Female: Male)*
IHS (12 Areas)	36.4	34.6		33.9	32.2		38.8	37.2		1.16
Aberdeen	30.7	30.2	(11)	27.8	27.5	(11)	33.4	33.1	(11)	1.20
Alaska	34.5	33.7	(7)	32.3	31.6	(8)	36.7	36.1	(7)	1.14
Albuquerque	37.6	36.8	(2)	35.1	34.5	(2)	39.9	39.4	(2)	1.14
Bemidji	31.4	29.5	(12)	29.1	27.2	(12)	33.6	31.7	(12)	1.17
Billings	32.7	32.1	(9)	30.6	29.9	(9)	34.7	34.1	(9)	1.14
California	42.6	38.3	(1)	39.6	35.2	(1)	45.2	41.1	(1)	1.17
Nashville	37.6	36.0	(5)	35.4	33.9	(4)	39.6	38.3	(5)	1.13
Navajo	36.9	36.7	(3)	34.1	34.0	(3)	39.4	39.2	(3)	1.15
Oklahoma	40.5	36.3	(4)	36.7	33.1	(5)	42.8	39.2	(3)	1.18
Phoenix	34.2	33.6	(8)	32.7	32.1	(7)	35.6	35.0	(8)	1.09
Portland	35.3	34.3	(6)	33.3	32.2	(6)	37.3	36.3	(6)	1.13
Tucson	31.5	31.2	(10)	29.0	28.5	(10)	33.8	33.6	(10)	1.18
U.S. All Races (1997)	*34.1*			*31.8*			*36.3*			*1.14*
U.S. White (1997)	*34.5*			*32.1*			*36.6*			*1.14*
U.S. Black (1997)	*30.5*			*27.5*			*33.1*			*1.20*

D. LIFE EXPECTANCY, PERSONS 60-64 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	*ADJ*	*RANK (ADJ)*	*UNADJ*	*ADJ*	*RANK (ADJ)*	*UNADJ*	*ADJ*	*RANK (ADJ)*	*(Female: Male)*
IHS (12 Areas)	20.8	19.4		19.1	17.8		22.3	21.2		1.19
Aberdeen	16.7	16.4	(11)	15.4	15.1	(11)	17.8	17.6	(11)	1.17
Alaska	18.8	18.2	(8)	17.4	16.8	(8)	20.1	19.7	(7)	1.17
Albuquerque	21.7	21.0	(4)	20.4	19.9	(1)	22.7	22.3	(4)	1.12
Bemidji	16.6	15.3	(12)	15.0	13.7	(12)	18.1	16.8	(12)	1.23
Billings	17.3	16.8	(10)	15.7	15.2	(10)	18.8	18.3	(10)	1.20
California	25.7	22.3	(1)	23.2	19.6	(3)	27.8	24.7	(1)	1.26
Nashville	21.8	20.5	(5)	20.4	19.2	(4)	22.9	22.0	(5)	1.15
Navajo	21.3	21.2	(2)	19.9	19.7	(2)	22.6	22.5	(3)	1.14
Oklahoma	23.7	21.1	(3)	21.0	18.4	(5)	25.8	23.4	(2)	1.27
Phoenix	19.5	18.9	(6)	18.7	18.1	(6)	20.1	19.6	(8)	1.08
Portland	19.4	18.6	(7)	17.9	17.0	(7)	20.8	20.0	(6)	1.18
Tucson	17.8	17.4	(9)	16.4	15.8	(9)	18.9	18.7	(9)	1.18
U.S. All Races (1997)	*17.7*			*15.9*			*19.2*			*1.21*
U.S. White (1997)	*17.8*			*16.0*			*19.3*			*1.21*
U.S. Black (1997)	*16.1*			*14.2*			*17.6*			*1.24*

( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

APPENDIX

CONSTRUCTING ABRIDGED LIFE TABLES

LIFE TABLE VALUES

The life tables in this report include the basic life table functions commonly shown as part of a published life table. The columns in a life table are identified by mathematical symbols as described below.

$_nQ_x$ The probability of dying during the age interval.

l_x The number of persons out of the original 100,000 live births who are still alive at the beginning of the age interval.

$_nd_x$ The number dying during the specified age interval.

$_nL_x$ The number of person-years lived during the specified age interval.

T_x The total number of person-years that will be lived from the beginning of the specified age interval until the last person in the cohort dies.

e_x^o Life expectancy, the average number of years remaining in the lifetime of a person alive at the beginning of the specified age interval.

PRELIMINARY LIFE TABLE DATA

The following preliminary life table data are not published as part of a life table but are used to generate the life table values described above. Some of these data are fixed constants which have been developed by NCHS for standardizing the abridged tables to the complete decennial life tables. Other preliminary data include mortality and population data used to develop mortality rates. The preliminary data are as follows:

$_nA_x$ A set of constants derived by NCHS from the complete decennial life table used as the standard table. These constants are used as adjustment factors to convert the age-specific mortality rates into $_nq_x$, the probability of dying for each age interval. The conversion of the observed $_nM_x$ to the $_nq_x$ in the abridged life table is based on the relationship of the $_nM_x$ to the $_nq_x$ in the table being used as the standard. The A constant differs by race and by gender.

$_nB_x$ A set of constants derived by NCHS from the complete decennial life table that is used as the standard table. These constants represent the distribution of deaths within the age interval. They are used to compute $_nL_x$, the number of person years lived during the age interval. Their computation assumes that the age distribution of those dying within the interval is the same within the abridged table as it is within the standard table. The B constant differs by race and by gender.

$_nP_x$ The estimated midyear population for the age interval.

$_nD_x$ The number of deaths for the age interval.

$_nM_x$ The age-specific death rate for the age interval.

$1+_nA_x*_nM_x$ A set of adjustment factors used to convert the observed population age-specific mortality rates into the probability of dying, or $_nq_x$ using the $_nA_x$ constant defined above.

Several additional factors that are called into the computations within columns of the spreadsheet are not normally shown individually in a life table. These include an F factor, a separation factor, and an end value constant. These computations are prepared for both genders combined and for each gender separately using different constants for the factors for each of these three population groups.

The ***F factor*** is used to adjust proportionately the age-specific death rates for the number of deaths with age not stated. It is computed for each life table based on number of deaths not stated in the population under study.

The ***separation factor*** is a constant developed by NCHS that is incorporated into the formula computing the infant mortality rate. Normally, the infant mortality rate is computed simply by dividing the number of infant deaths in a given year by the number of births in that year even though infant deaths do not always occur in the year of birth. The purpose of the separation factor is to separate infants dying at less than one year of age into those born in that same year from those born in the previous year. The infant mortality rate is then computed in two parts, using the appropriate number of births as the denominator for the infant deaths which have been "separated" by year of birth.

The ***end-value constant*** is developed by NCHS and used to compute the number of remaining person-years lived for those age 85 years and older. This is necessary because this age group is an open-ended interval.

How to Interpret a Life Table

Although a life table contains a multitude of numbers and formulas, the primary interest of a life table user is most likely one number, the expected years of life at birth. This number (the expected years of life at birth) is shown as the first number in column seven on each of the life tables (A1-A39). The purpose of all other numbers and formulas within the table is the generation of that number. Life tables are usually prepared by gender because of the substantial difference found between the life expectancy of males and females.

In order to understand the life table concept it is important to understand life table functions and how they are interrelated.

Preliminary life table data are not presented in this report, with the exception of ${}_nB_x$, is used to compute ${}_nQ_x$, which is the proportion or probability of dying during the age interval. The first step in the generation of ${}_nQ_x$ is the computation of the age-specific death rate, or ${}_nM_x$, from the number of deaths and the population within the age group. ${}_nM_x$ may differ slightly from the age-specific mortality rates that we normally use because the number of deaths with age not stated are distributed proportionally among the age groups in the computation of ${}_nM_x$. ${}_nM_x$ also differs from the normal infant mortality rate due to use of the separation factor as discussed earlier.

The second step toward computing ${}_nQ_x$ is the development of the adjustment factor, based on the relationship of the age-specific death rates to the probability of dying, ${}_nA_x$, that was found in the life table used as the standard. The age-specific death rates computed for the life table are then converted to the probability of dying within the interval by multiplying the rate times the length of the age interval and then dividing by the adjustment factor.

The next two life table columns, l_x and ${}_nd_x$, are interrelated. The first row of column l_x is the beginning cohort of 100,000 live births used as a starting point for any life table. The first row of column ${}_nd_x$ is the number of those 100,000 who die during this age interval. For each of the succeeding age groups, l_x is the number from the original cohort of 100,000 births who survive to the exact age at the beginning of the age interval. This number is computed by subtracting the number dying, or ${}_nd_x$, in the previous age interval from the number alive at the beginning of that previous interval. The number dying is computed by applying the probability of dying during the interval, ${}_nQ_x$, to the number alive at the beginning of the interval, l_x.

Columns ${}_nL_x$ and T_x are both related to the stationary population. ${}_nL_x$ differs from l_x in that l_x is the number of survivors from a single birth cohort of 100,000 births who survive *to* the beginning of an age interval, while ${}_nL_x$ is the total number of survivors *within* the age interval based on multiple birth cohorts of 100,000 births each, the number of cohorts depending on the number of years in the age interval identified. For example, the first age group in the life table consists of one birth cohort of 100,000 births. The second age interval is a four-year interval composed of four birth cohorts totaling 400,000 births. The remaining age groups (with the exception of 85+ years) are in five-year intervals of five birth cohorts totaling 500,000 births as

a beginning population. ${}_nL_x$ is computed by multiplying the number of single cohort survivors at the beginning of the interval, or l_x, by the number of cohorts (based on the size of the age interval) within the age interval and then subtracting deaths for the age interval, ${}_nd_x$, which has been adjusted by ${}_nB_x$, a conversion factor derived from the "standard" life table.

T_x is the total number of survivors in the specified age group and all older age groups. It is computed by adding ${}_nL_x$ for the specified age interval to the sum of the ${}_nL_x$'s of older age groups.

Finally e_x^o,or life expectancy, is computed by dividing T_x by l_x for each age interval.

ADJUSTING FOR MISREPORTING OF INDIAN RACE ON STATE DEATH CERTIFICATES

Misreporting of Indian race on state death certificates occurs, especially in areas distant from traditional Indian reservations. In order to determine the degree and scope of the misreporting, IHS conducted a study utilizing the National Death Index (NDI) maintained by the NCHS. The study involved matching IHS patient records of those patients who could have died during 1986 through 1988 with all death records of U.S. residents for 1986 through 1988 as contained on the NDI. The results were published in a document entitled, *Adjusting for Miscoding of Indian Race on State Death Certificates*, November 1996. The study revealed that on 10.9 percent of the matched IHS-NDI records, the race reported for the decedent was other than American Indian or Alaska Native. The percentage of records with inconsistent classification of race ranged from 1.2 percent in the Navajo Area to 28.0 and 30.4 percents in the Oklahoma and California Areas, respectively.

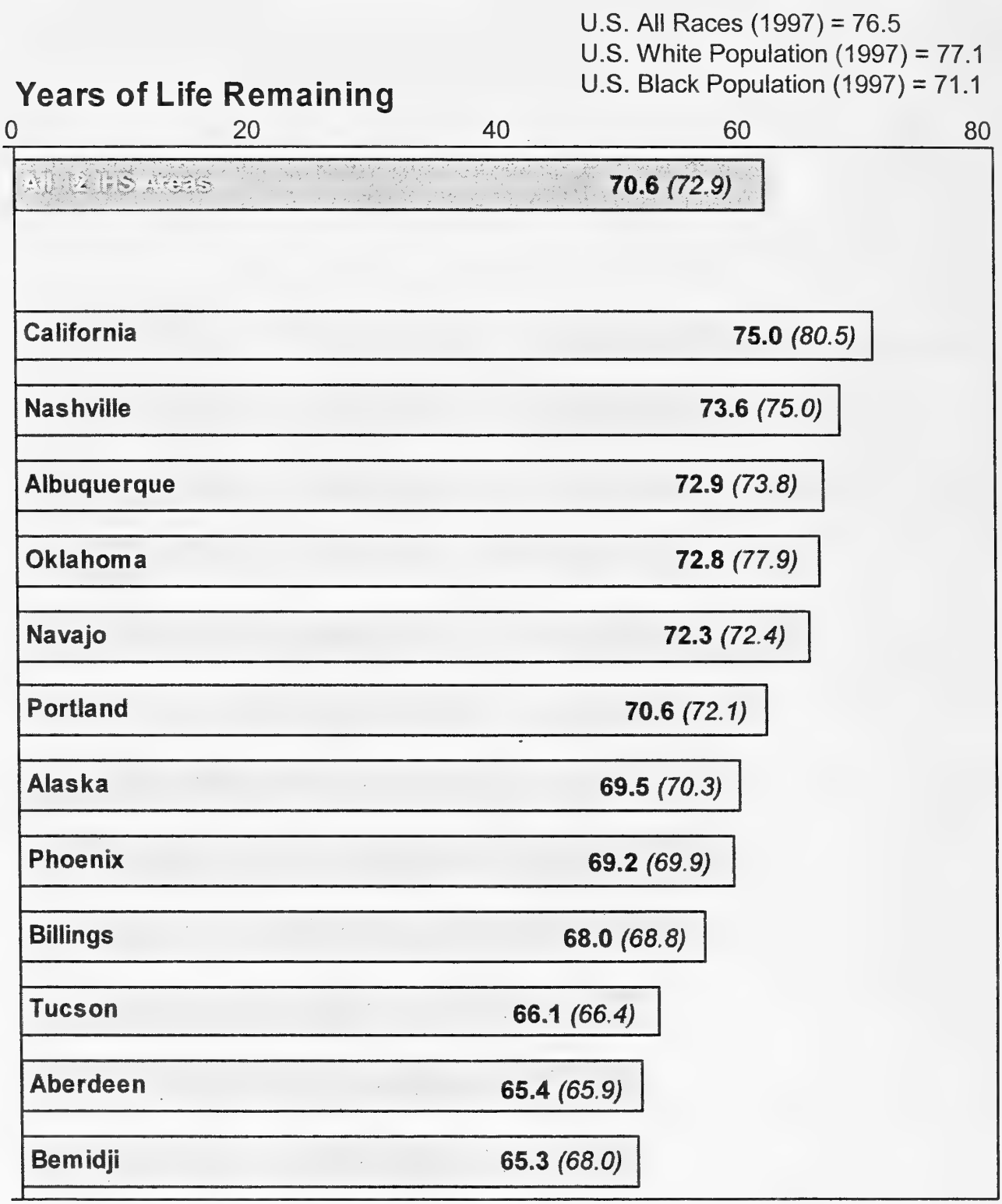
The results of the NDI study provide sufficient numbers to calculate adjustments for each IHS Area, IHS overall, and selected age groups. In addition to these adjustments based on the study findings, IHS assumed the following; a) the results from 1986-88 apply to years beyond 1988 and b) IHS age-group adjustments applied also to each Area. These assumptions cannot be statistically supported by the results of the study. However, IHS felt that it was necessary to adjust all of the death data in this report to provide a meaningful and comprehensive look at life expectancy. IHS also believes that they are reasonable adjustments.

IHS has more specific adjustment factors for the age group under one year. These are derived from the linked birth/infant death data sets produced by the NCHS. IHS is assuming that data years 1994-96 can be adjusted based on the results from prior years of the linked data sets, which is not statistically sound but reasonable. These adjustments for 1994-96 take precedent over the NDI adjustments for the under one-year age group, described above.

Adjusted life expectancies are considered a more accurate representation of Indian life expectancy than actual life expectancies because the "unadjusted" data upon which they are based has been "adjusted" to account for misreporting of Indian race on death certificates. Therefore, the analyses in this report are based upon adjusted life expectancies.

Chart A1. Life Expectancy at Birth, Both Sexes

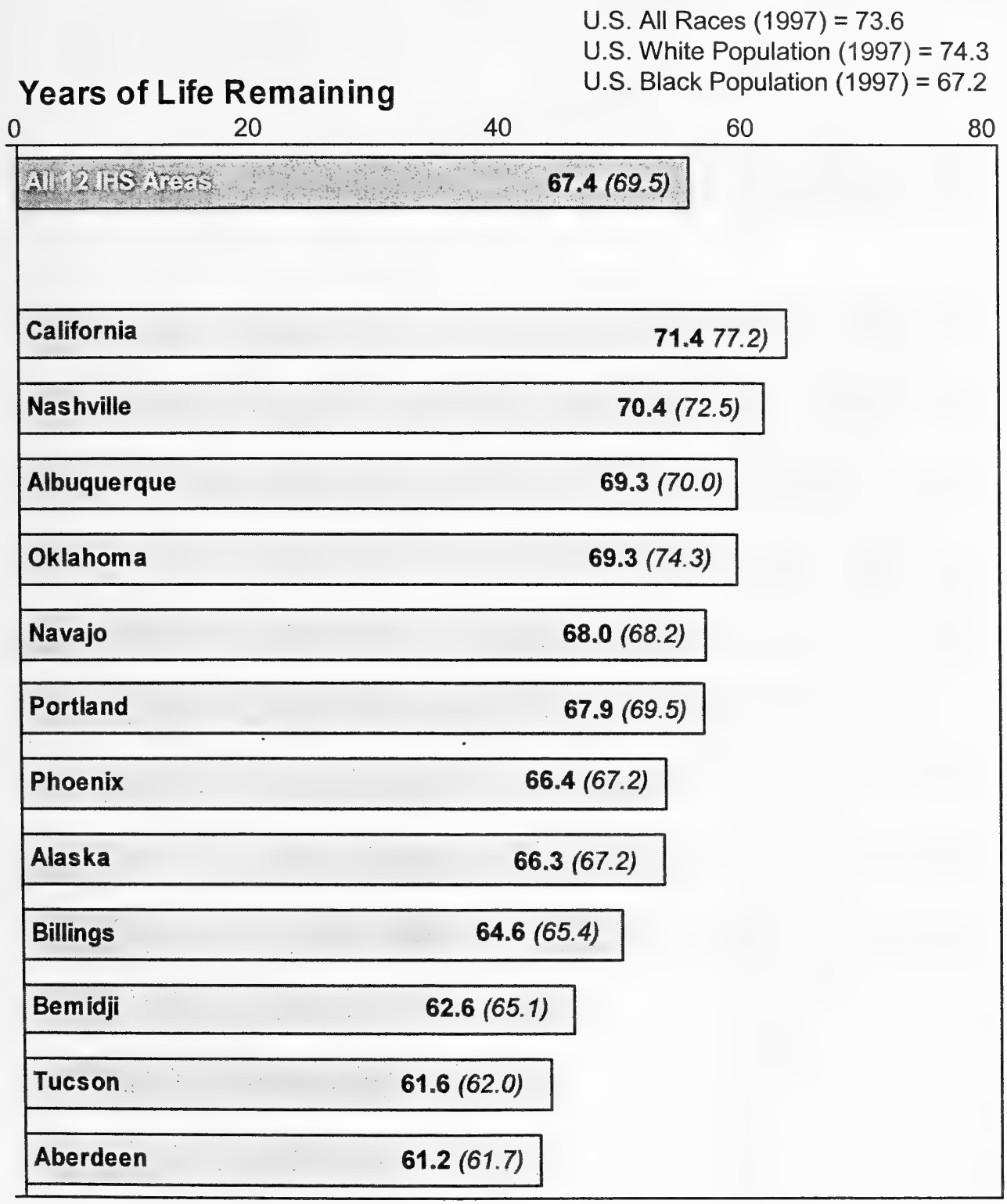
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart A2. Life Expectancy at Birth, Males

CY 1996-1998

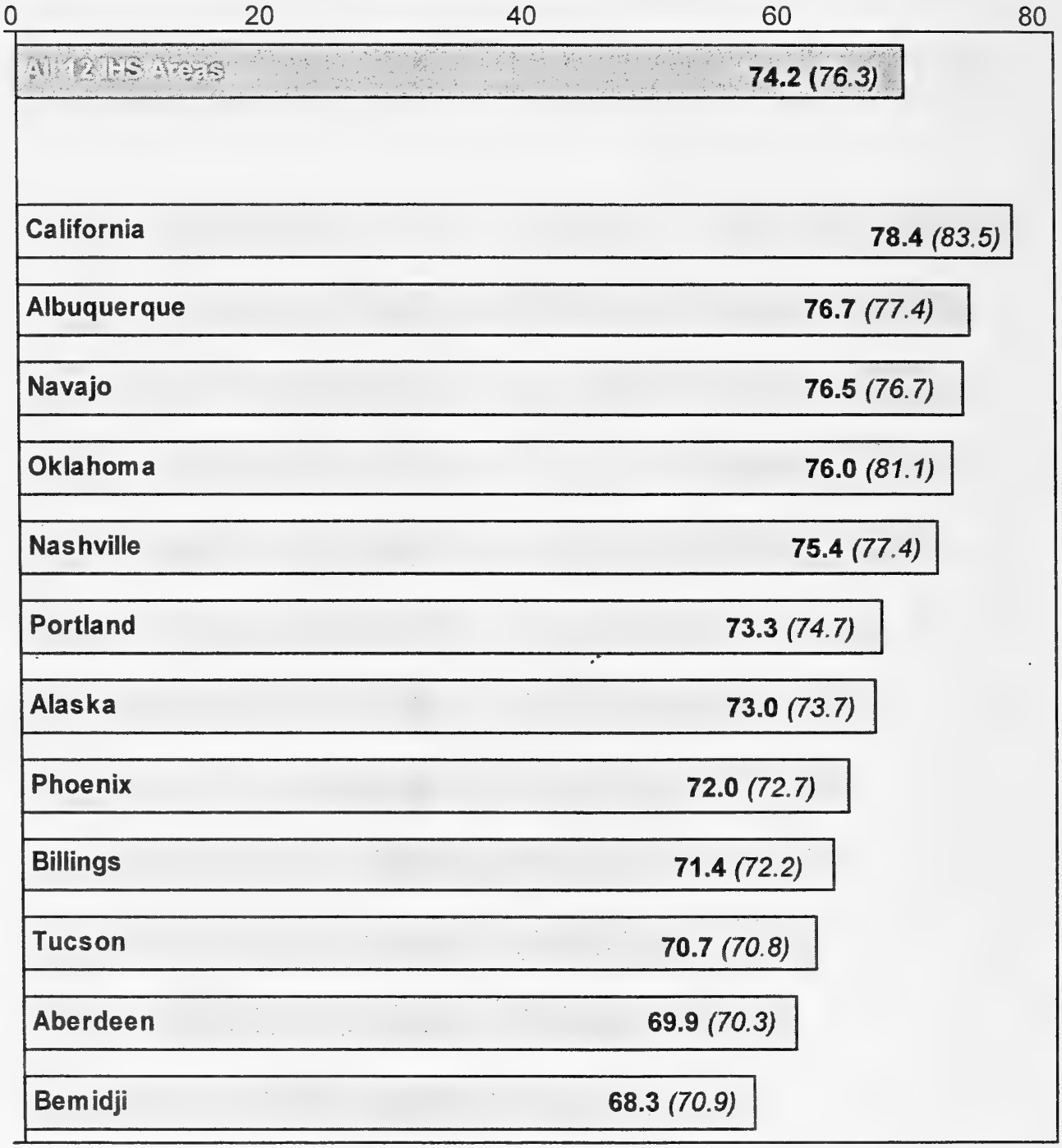


NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart A3. Life Expectancy at Birth, Females

CY 1996-1998

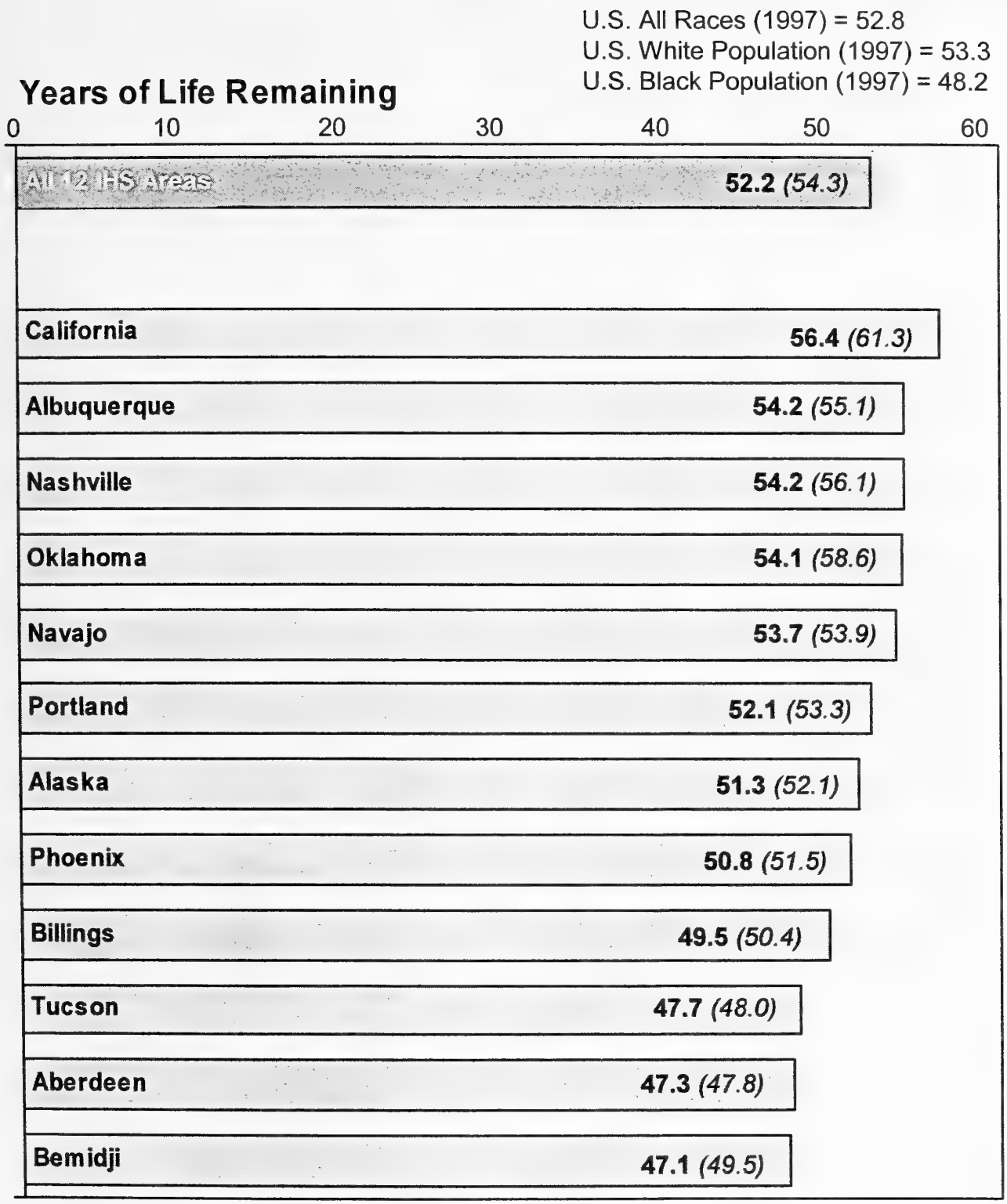
U.S. All Races (1997) = 79.4
U.S. White Population (1997) = 79.9
U.S. Black Population (1997) = 74.7



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart B1. Life Expectancy at 20-24 Years, Both Sexes

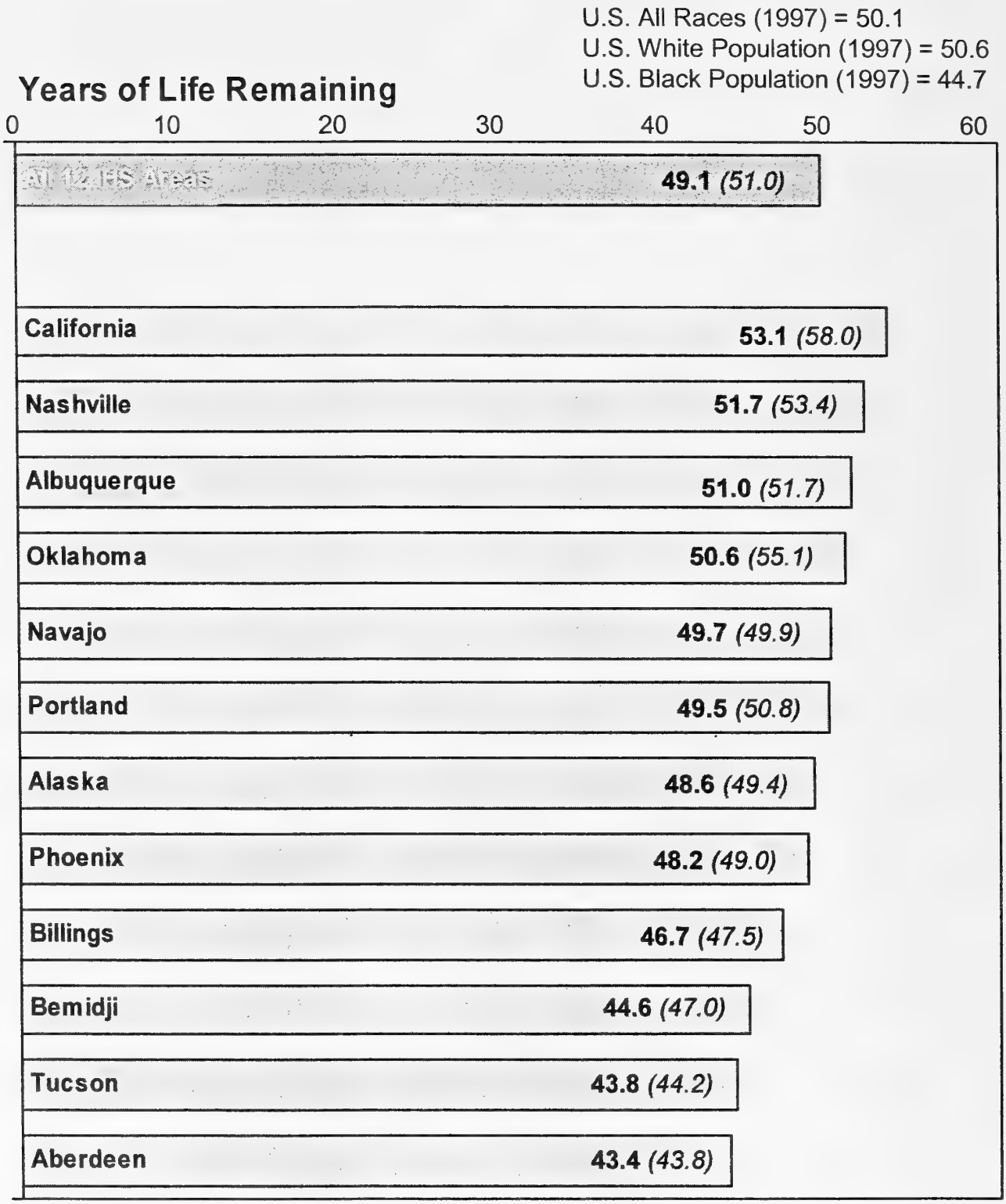
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart B2. Life Expectancy at 20-24 Years, Males

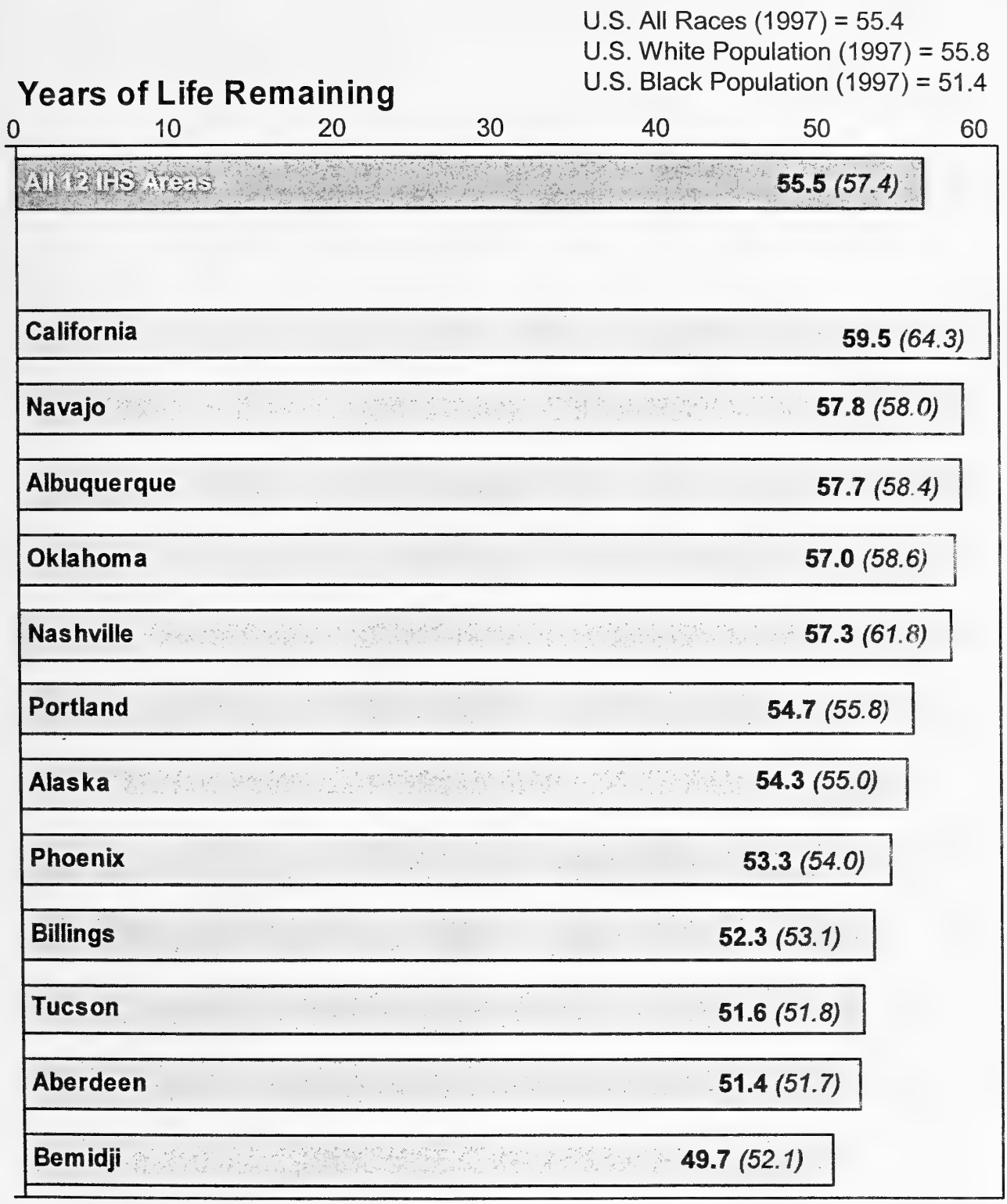
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses *( )*.

Chart B3. Life Expectancy at 20-24 Years, Females

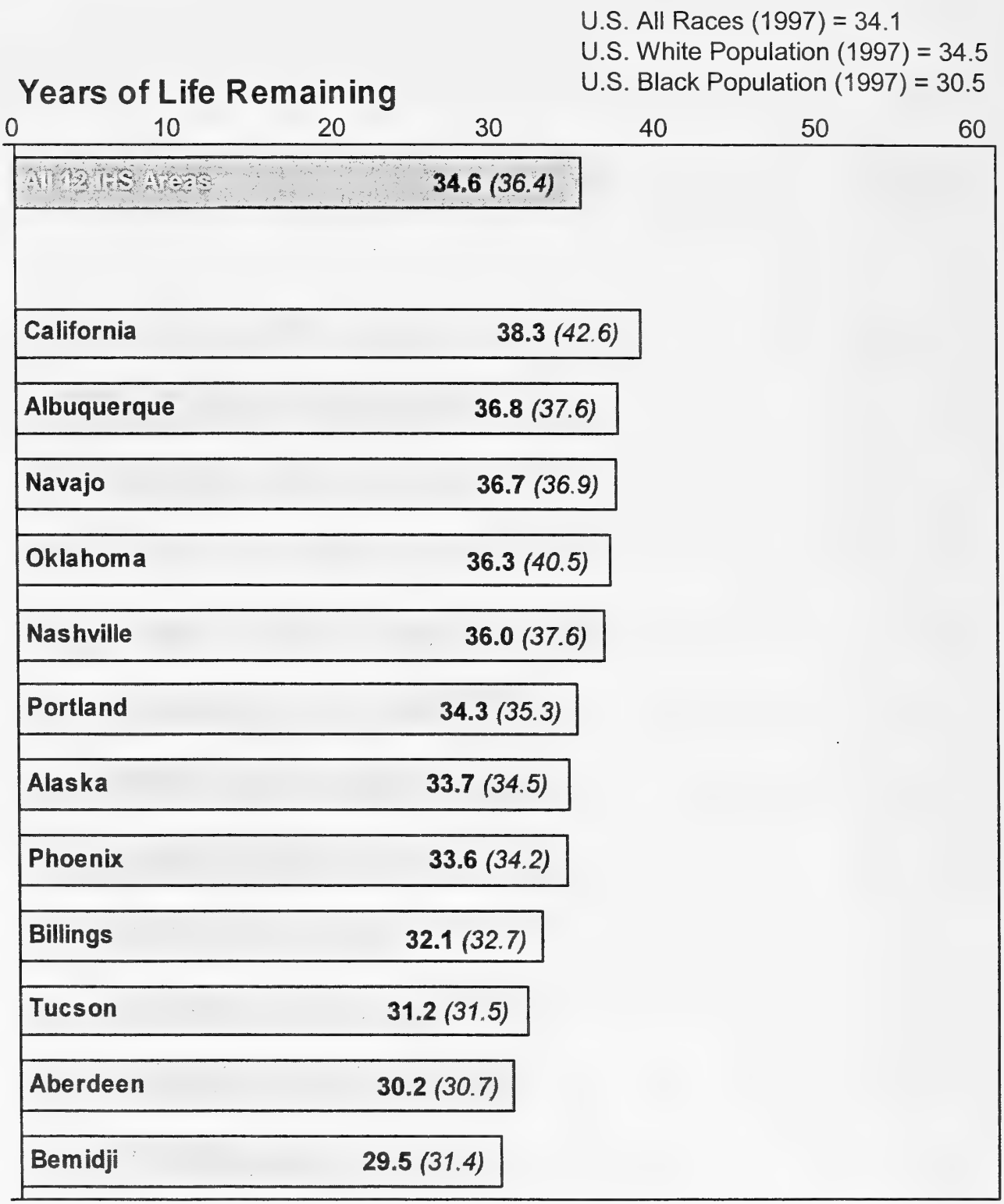
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart C1. Life Expectancy at 40-44 Years, Both Sexes

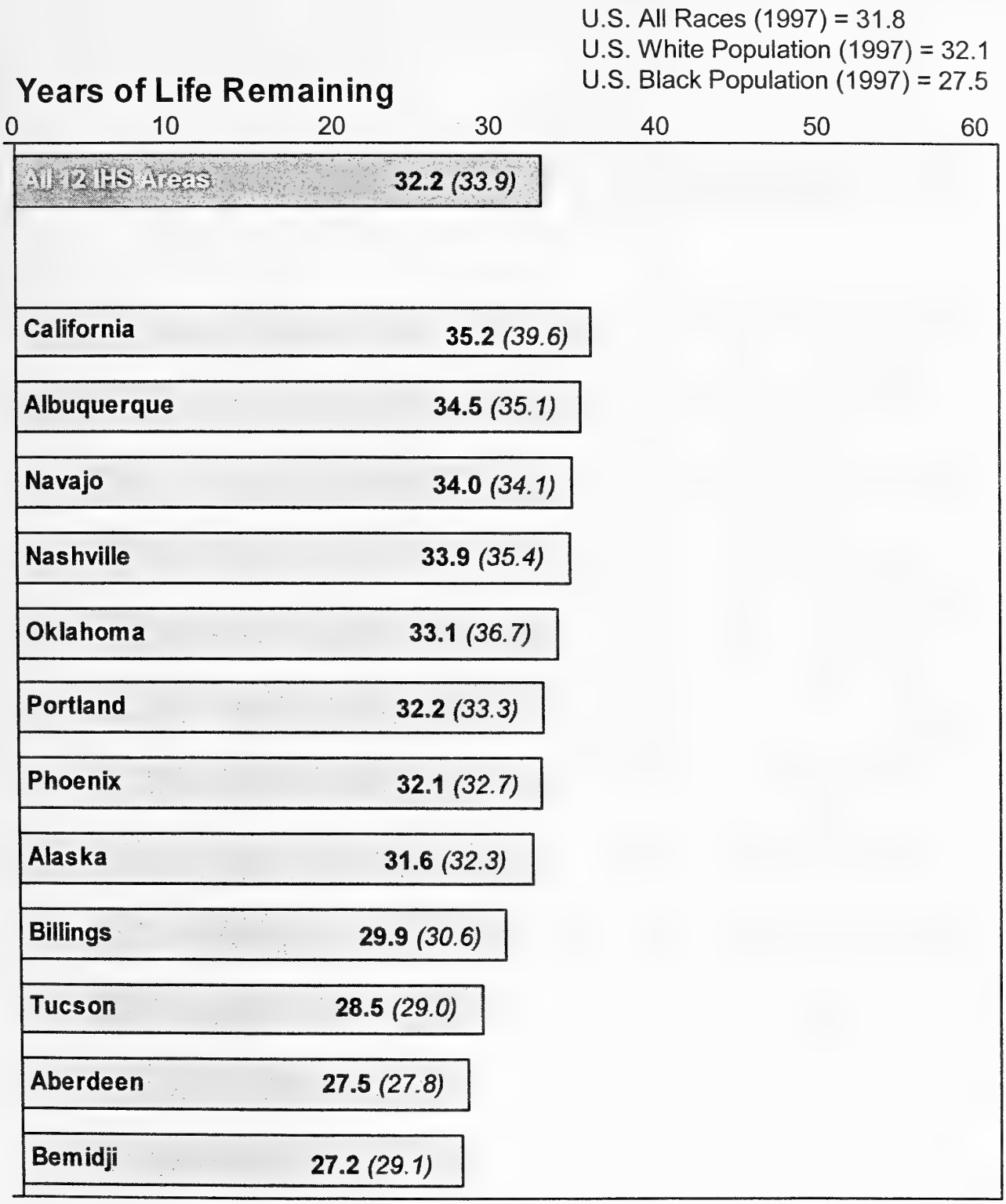
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart C2. Life Expectancy at 40-44 Years, Males

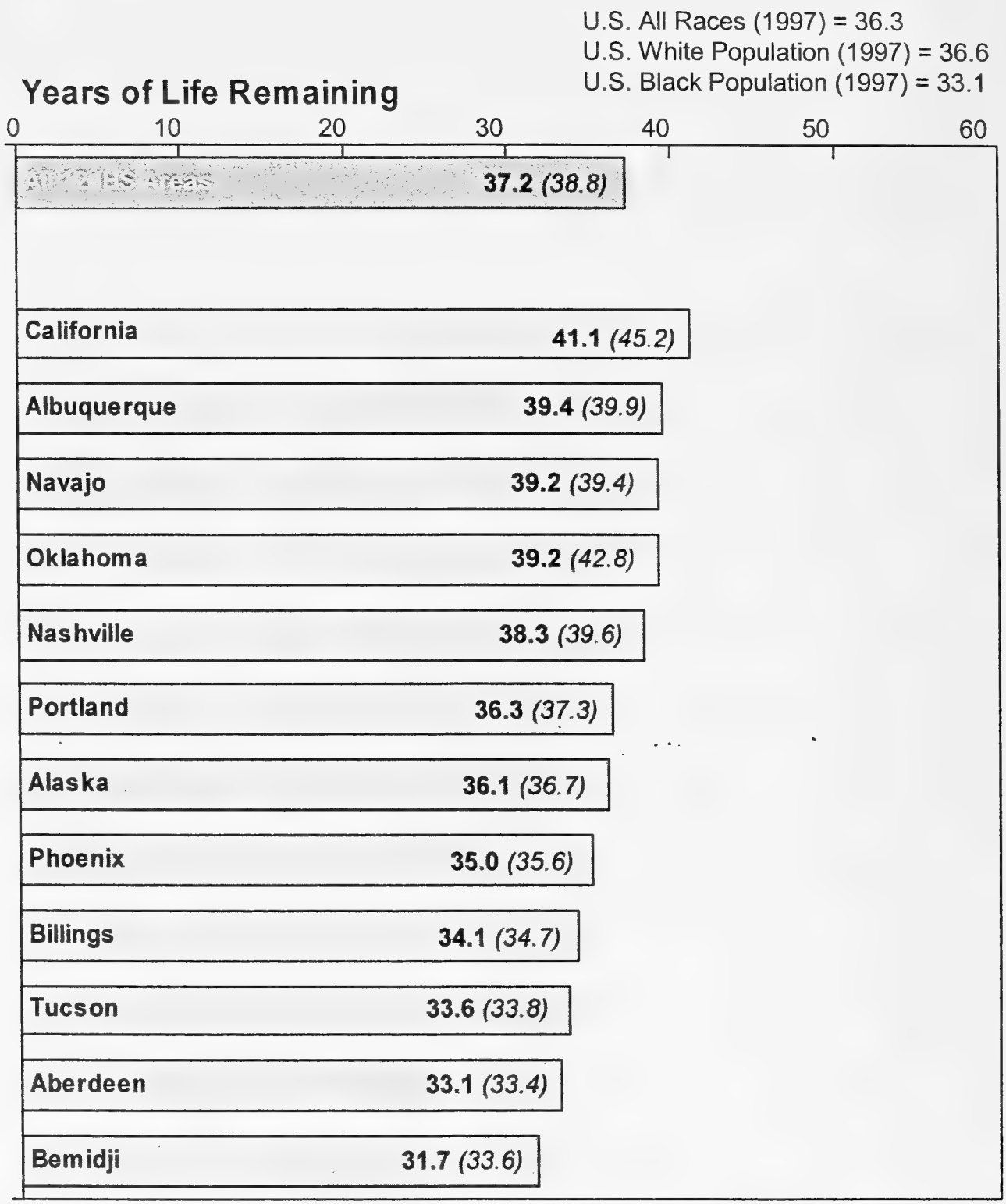
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart C3. Life Expectancy at 40-44 Years, Females

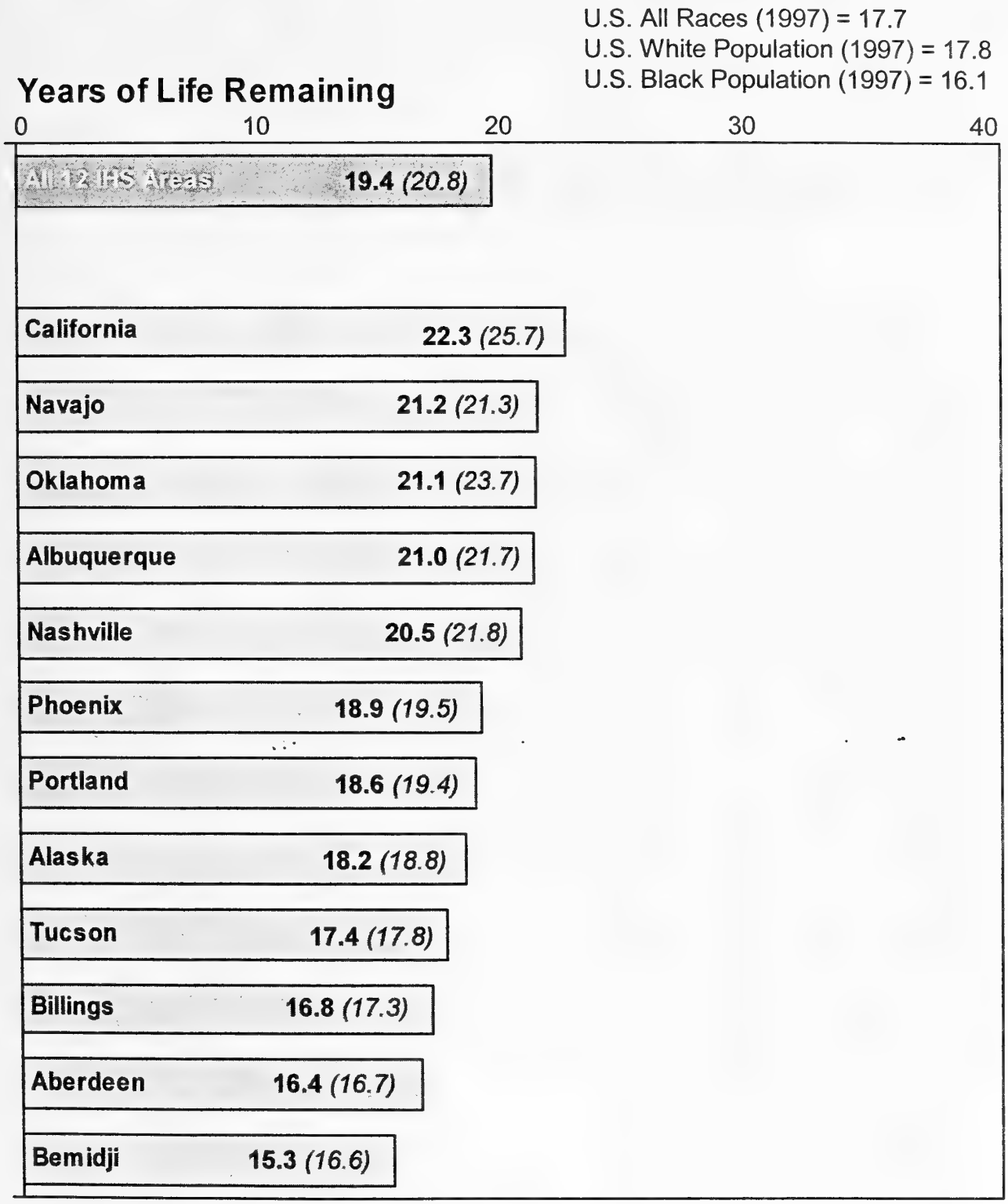
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart D1. Life Expectancy at 60-64 Years, Both Sexes

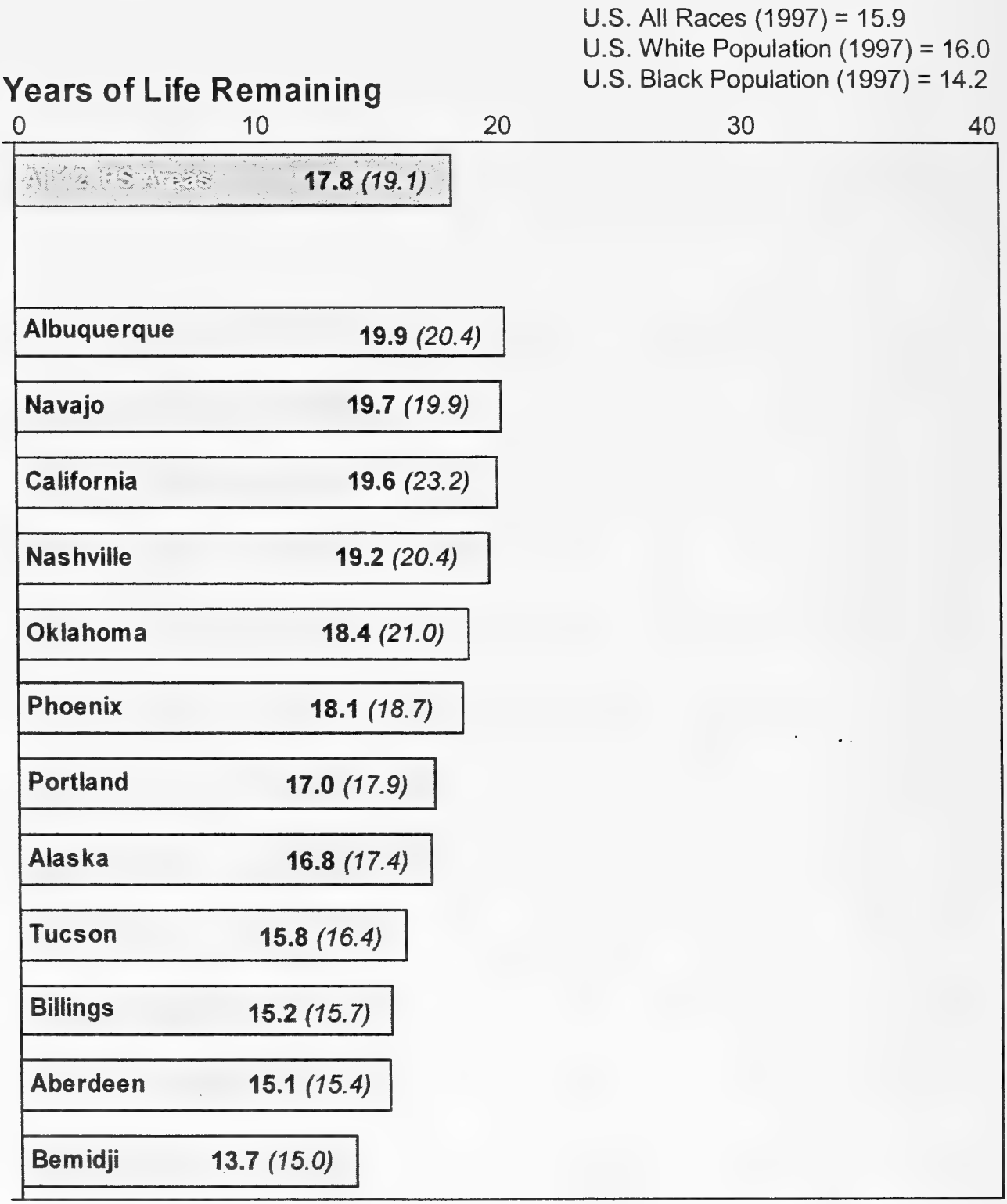
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart D2. Life Expectancy at 60-64 Years, Males

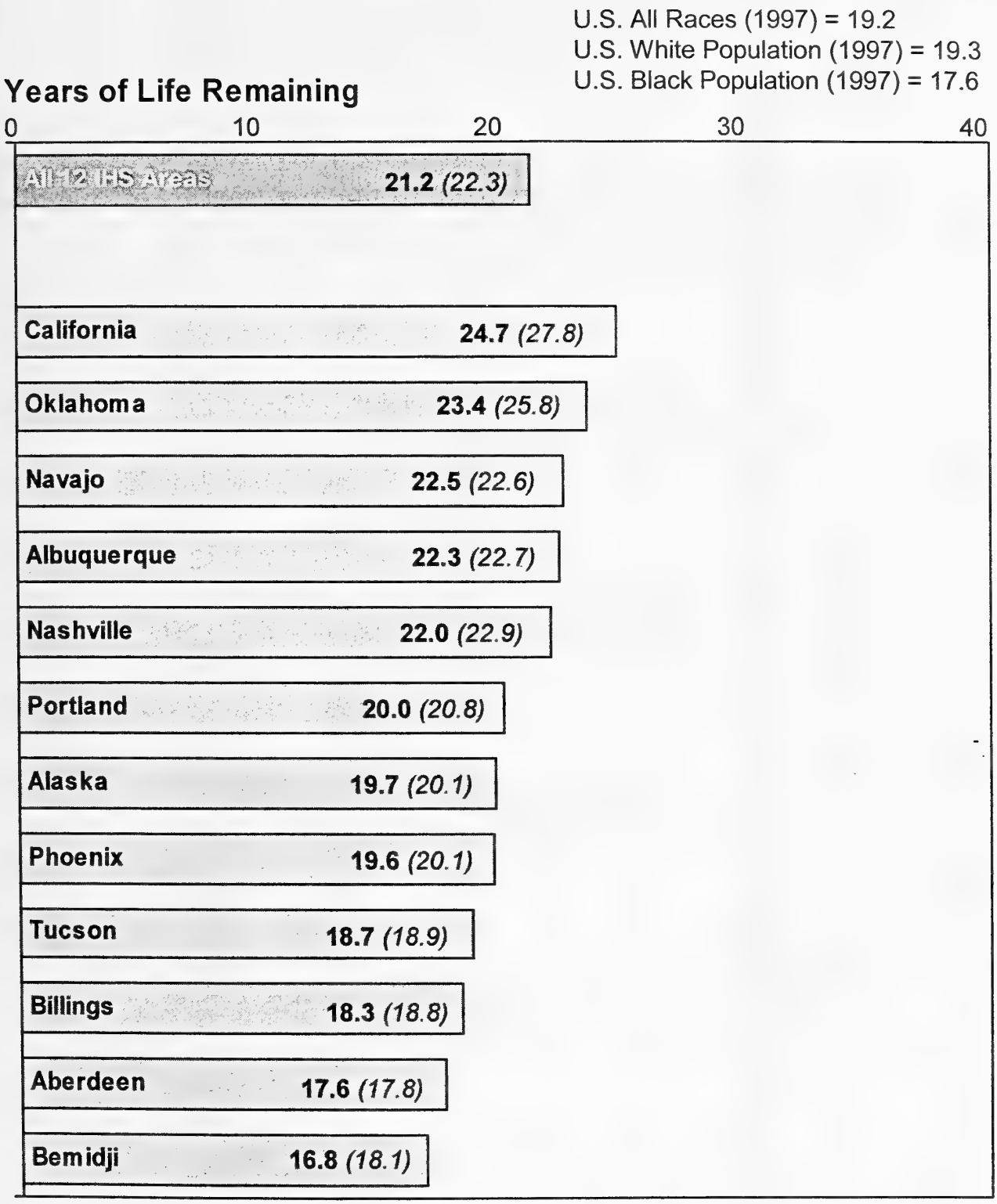
CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Chart D3. Life Expectancy at 60-64 Years, Females

CY 1996-1998



NOTE: Unadjusted life expectancies (i.e. not adjusted for misreporting of AI/AN race on state death certificates) are shown in parentheses ( ).

Table A1. Life Tables for American Indians and Alaska Natives, Both Sexes in All 12 IHS Areas, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	nQx	lx	nDx	nLx	Tx	Ex
Under 1 year	0.009114	100,000	911	99,223	7,063,972	70.6
1-4 years	0.003019	99,089	299	395,636	6,964,749	70.3
5-9 years	0.001571	98,790	155	493,521	6,569,113	66.5
10-14 years	0.001966	98,635	194	492,805	6,075,592	61.6
15-19 years	0.008412	98,441	828	490,350	5,582,787	56.7
20-24 years	0.011008	97,613	1,075	485,484	5,092,437	52.2
25-29 years	0.010770	96,538	1,040	480,180	4,606,953	47.7
30-34 years	0.015629	95,498	1,493	473,918	4,126,773	43.2
35-39 years	0.020564	94,005	1,933	465,376	3,652,855	38.9
40-44 years	0.028232	92,072	2,599	454,131	3,187,479	34.6
45-49 years	0.038824	89,473	3,474	439,167	2,733,348	30.5
50-54 years	0.052036	85,999	4,475	419,423	2,294,181	26.7
55-59 years	0.065084	81,524	5,306	395,040	1,874,758	23.0
60-64 years	0.095604	76,218	7,287	363,641	1,479,718	19.4
65-69 years	0.126027	68,931	8,687	323,590	1,116,077	16.2
70-74 years	0.189658	60,244	11,426	273,320	792,487	13.2
75-79 years	0.231788	48,818	11,315	216,073	519,167	10.6
80-84 years	0.339313	37,503	12,725	155,556	303,094	8.1
85+ years	1.000000	24,778	24,778	147,538	147,538	6.0

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A2. Life Tables for American Indians and Alaska Natives, Both Sexes in Aberdeen Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.012962	100,000	1,296	98,895	6,540,010	65.4
1-4 years	0.003772	98,704	372	393,920	6,441,115	65.3
5-9 years	0.001189	98,332	117	491,336	6,047,195	61.5
10-14 years	0.002461	98,215	242	490,613	5,555,859	56.6
15-19 years	0.012059	97,973	1,181	487,220	5,065,246	51.7
20-24 years	0.013023	96,792	1,261	480,932	4,578,026	47.3
25-29 years	0.015186	95,531	1,451	474,153	4,097,094	42.9
30-34 years	0.021839	94,080	2,055	465,483	3,622,941	38.5
35-39 years	0.028413	92,025	2,615	453,836	3,157,458	34.3
40-44 years	0.044972	89,410	4,021	437,414	2,703,622	30.2
45-49 years	0.058319	85,389	4,980	415,193	2,266,208	26.5
50-54 years	0.076645	80,409	6,163	387,485	1,851,015	23.0
55-59 years	0.089018	74,246	6,609	355,561	1,463,530	19.7
60-64 years	0.138369	67,637	9,359	315,774	1,107,969	16.4
65-69 years	0.182443	58,278	10,632	265,608	792,195	13.6
70-74 years	0.250179	47,646	11,920	209,123	526,587	11.1
75-79 years	0.315188	35,726	11,260	150,749	317,464	8.9
80-84 years	0.413369	24,466	10,113	96,931	166,715	6.8
85+ years	1.000000	14,353	14,353	69,784	69,784	4.9

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A3. Life Tables for American Indians and Alaska Natives, Both Sexes in Alaska Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1) x to x+n	*Proportion of persons alive at beginning of age interval dying during interval* (2) nQx	*Number of living at beginning of age interval* (3) lx	*Number dying during age interval* (4) nDx	*Person-years lived in the age interval* (5) nLx	*Total number of person-years lived in this and all subsequent age intervals* (6) Tx	*Average number of years remaining at beginning of age interval* (7) Ex
Under 1 year	0.009073	100,000	907	99,226	6,945,009	69.5
1-4 years	0.002877	99,093	285	395,686	6,845,783	69.1
5-9 years	0.002336	98,808	231	493,400	6,450,097	65.3
10-14 years	0.003056	98,577	301	492,311	5,956,697	60.4
15-19 years	0.012912	98,276	1,269	488,537	5,464,386	55.6
20-24 years	0.011985	97,007	1,163	482,243	4,975,849	51.3
25-29 years	0.008085	95,844	775	477,350	4,493,606	46.9
30-34 years	0.016524	95,069	1,571	471,586	4,016,256	42.2
35-39 years	0.022556	93,498	2,109	462,418	3,544,670	37.9
40-44 years	0.033376	91,389	3,050	449,636	3,082,252	33.7
45-49 years	0.038655	88,339	3,415	433,636	2,632,616	29.8
50-54 years	0.044496	84,924	3,779	415,692	2,198,980	25.9
55-59 years	0.060075	81,145	4,875	394,167	1,783,288	22.0
60-64 years	0.096837	76,270	7,386	363,664	1,389,121	18.2
65-69 years	0.123011	68,884	8,473	323,874	1,025,457	14.9
70-74 years	0.229562	60,411	13,868	268,192	701,583	11.6
75-79 years	0.260319	46,543	12,116	202,715	433,391	9.3
80-84 years	0.414234	34,427	14,261	136,318	230,676	6.7
85+ years	1.000000	20,166	20,166	94,358	94,358	4.7

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A4. Life Tables for American Indians and Alaska Natives, Both Sexes in Albuquerque Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.007035	100,000	704	99,399	7,289,952	72.9
1-4 years	0.002708	99,296	269	396,536	7,190,553	72.4
5-9 years	0.000976	99,027	97	494,866	6,794,017	68.6
10-14 years	0.001725	98,930	171	494,324	6,299,151	63.7
15-19 years	0.008285	98,759	818	491,963	5,804,827	58.8
20-24 years	0.010295	97,941	1,008	487,285	5,312,864	54.2
25-29 years	0.008849	96,933	858	482,594	4,825,579	49.8
30-34 years	0.015940	96,075	1,531	476,712	4,342,985	45.2
35-39 years	0.024073	94,544	2,276	467,246	3,866,273	40.9
40-44 years	0.017617	92,268	1,626	457,443	3,399,027	36.8
45-49 years	0.037931	90,642	3,438	445,097	2,941,584	32.5
50-54 years	0.042083	87,204	3,670	427,350	2,496,487	28.6
55-59 years	0.051149	83,534	4,273	407,539	2,069,137	24.8
60-64 years	0.086704	79,261	6,872	379,850	1,661,598	21.0
65-69 years	0.105040	72,389	7,604	343,506	1,281,748	17.7
70-74 years	0.131342	64,785	8,509	303,147	938,242	14.5
75-79 years	0.169675	56,276	9,549	257,736	635,095	11.3
80-84 years	0.289572	46,727	13,531	199,651	377,359	8.1
85+ years	1.000000	33,196	33,196	177,708	177,708	5.4

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A5. Life Tables for American Indians and Alaska Natives, Both Sexes in Bemidji Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.011052	100,000	1,105	99,057	6,534,517	65.3
1-4 years	0.004073	98,895	403	394,609	6,435,460	65.1
5-9 years	0.000694	98,492	68	492,272	6,040,851	61.3
10-14 years	0.003375	98,424	332	491,487	5,548,579	56.4
15-19 years	0.010807	98,092	1,060	488,086	5,057,092	51.6
20-24 years	0.012778	97,032	1,240	482,183	4,569,006	47.1
25-29 years	0.011249	95,792	1,078	476,358	4,086,823	42.7
30-34 years	0.017029	94,714	1,613	469,711	3,610,465	38.1
35-39 years	0.022833	93,101	2,126	460,392	3,140,754	33.7
40-44 years	0.038073	90,975	3,464	446,573	2,680,362	29.5
45-49 years	0.054629	87,511	4,781	426,273	2,233,789	25.5
50-54 years	0.072117	82,730	5,966	399,556	1,807,516	21.8
55-59 years	0.112794	76,764	8,658	363,293	1,407,960	18.3
60-64 years	0.137659	68,106	9,375	318,081	1,044,667	15.3
65-69 years	0.203157	58,731	11,932	264,721	726,586	12.4
70-74 years	0.301659	46,799	14,117	199,524	461,865	9.9
75-79 years	0.352239	32,682	11,512	134,905	262,341	8.0
80-84 years	0.474650	21,170	10,048	80,614	127,436	6.0
85+ years	1.000000	11,122	11,122	46,822	46,822	4.2

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A6. Life Tables for American Indians and Alaska Natives, Both Sexes in Billings Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.011271	100,000	1,127	99,039	6,796,300	68.0
1-4 years	0.001552	98,873	153	395,123	6,697,261	67.7
5-9 years	0.001941	98,720	192	493,068	6,302,138	63.8
10-14 years	0.001664	98,528	164	492,327	5,809,070	59.0
15-19 years	0.009383	98,364	923	489,752	5,316,743	54.1
20-24 years	0.012398	97,441	1,208	484,305	4,826,991	49.5
25-29 years	0.010798	96,233	1,039	478,657	4,342,686	45.1
30-34 years	0.020167	95,194	1,920	471,376	3,864,029	40.6
35-39 years	0.019661	93,274	1,834	461,959	3,392,653	36.4
40-44 years	0.026786	91,440	2,449	451,331	2,930,694	32.1
45-49 years	0.050140	88,991	4,462	434,425	2,479,363	27.9
50-54 years	0.059427	84,529	5,023	410,779	2,044,938	24.2
55-59 years	0.066698	79,506	5,303	384,957	1,634,159	20.6
60-64 years	0.123940	74,203	9,197	348,992	1,249,202	16.8
65-69 years	0.185256	65,006	12,043	295,827	900,210	13.8
70-74 years	0.240129	52,963	12,718	233,760	604,383	11.4
75-79 years	0.300883	40,245	12,109	171,242	370,623	9.2
80-84 years	0.438681	28,136	12,343	109,680	199,381	7.1
85+ years	1.000000	15,793	15,793	89,701	89,701	5.7

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A7. Life Tables for American Indians and Alaska Natives, Both Sexes in California Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.009326	100,000	933	99,204	7,497,343	75.0
1-4 years	0.003043	99,067	301	395,543	7,398,139	74.7
5-9 years	0.000408	98,766	40	493,719	7,002,596	70.9
10-14 years	0.001005	98,726	99	493,441	6,508,877	65.9
15-19 years	0.006164	98,627	608	491,773	6,015,436	61.0
20-24 years	0.010244	98,019	1,004	487,684	5,523,663	56.4
25-29 years	0.008268	97,015	802	483,139	5,035,979	51.9
30-34 years	0.009740	96,213	937	478,823	4,552,840	47.3
35-39 years	0.012749	95,276	1,215	473,458	4,074,017	42.8
40-44 years	0.020376	94,061	1,917	465,711	3,600,559	38.3
45-49 years	0.026594	92,144	2,450	454,938	3,134,848	34.0
50-54 years	0.036370	89,694	3,262	440,764	2,679,910	29.9
55-59 years	0.055613	86,432	4,807	420,763	2,239,146	25.9
60-64 years	0.071016	81,625	5,797	394,244	1,818,383	22.3
65-69 years	0.093086	75,828	7,059	362,023	1,424,139	18.8
70-74 years	0.162766	68,769	11,193	316,513	1,062,116	15.4
75-79 years	0.223140	57,576	12,848	256,067	745,603	12.9
80-84 years	0.303660	44,728	13,582	189,528	489,536	10.9
85+ years	1.000000	31,146	31,146	300,008	300,008	9.6

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A8. Life Tables for American Indians and Alaska Natives, Both Sexes in Nashville Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.000000	100,000	0	100,000	7,359,802	73.6
1-4 years	0.003911	100,000	391	399,058	7,259,802	72.6
5-9 years	0.001211	99,609	121	497,710	6,860,744	68.9
10-14 years	0.000251	99,488	25	497,392	6,363,034	64.0
15-19 years	0.004873	99,463	485	496,229	5,865,642	59.0
20-24 years	0.007460	98,978	738	493,118	5,369,413	54.2
25-29 years	0.007241	98,240	711	489,484	4,876,295	49.6
30-34 years	0.009490	97,529	926	485,429	4,386,811	45.0
35-39 years	0.016493	96,603	1,593	479,184	3,901,382	40.4
40-44 years	0.019469	95,010	1,850	470,616	3,422,198	36.0
45-49 years	0.030431	93,160	2,835	459,110	2,951,582	31.7
50-54 years	0.046347	90,325	4,186	441,736	2,492,472	27.6
55-59 years	0.073232	86,139	6,308	415,740	2,050,736	23.8
60-64 years	0.079874	79,831	6,376	383,887	1,634,996	20.5
65-69 years	0.117235	73,455	8,611	346,394	1,251,109	17.0
70-74 years	0.161346	64,844	10,462	298,673	904,715	14.0
75-79 years	0.210487	54,382	11,447	243,566	606,042	11.1
80-84 years	0.317987	42,935	13,653	180,385	362,476	8.4
85+ years	1.000000	29,282	29,282	182,091	182,091	6.2

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A9. Life Tables for American Indians and Alaska Natives, Both Sexes in Navajo Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	nQx	lx	nDx	nLx	Tx	Ex
Under 1 year	0.007298	100,000	730	99,377	7,227,739	72.3
1-4 years	0.003275	99,270	325	396,297	7,128,362	71.8
5-9 years	0.001998	98,945	198	494,177	6,732,065	68.0
10-14 years	0.001877	98,747	185	493,382	6,237,888	63.2
15-19 years	0.007980	98,562	786	491,049	5,744,506	58.3
20-24 years	0.014303	97,776	1,399	485,521	5,253,457	53.7
25-29 years	0.011634	96,377	1,121	479,179	4,767,936	49.5
30-34 years	0.018468	95,256	1,759	472,071	4,288,757	45.0
35-39 years	0.022148	93,497	2,071	462,504	3,816,686	40.8
40-44 years	0.029790	91,426	2,724	450,602	3,354,182	36.7
45-49 years	0.034172	88,702	3,031	436,357	2,903,580	32.7
50-54 years	0.044809	85,671	3,839	419,286	2,467,223	28.8
55-59 years	0.049519	81,832	4,052	399,553	2,047,937	25.0
60-64 years	0.071829	77,780	5,587	375,522	1,648,384	21.2
65-69 years	0.116105	72,193	8,382	340,639	1,272,862	17.6
70-74 years	0.156572	63,811	9,991	294,659	932,223	14.6
75-79 years	0.197705	53,820	10,640	242,754	637,564	11.8
80-84 years	0.286013	43,180	12,350	184,883	394,810	9.1
85+ years	1.000000	30,830	30,830	209,927	209,927	6.8

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A10. Life Tables for American Indians and Alaska Natives, Both Sexes in Oklahoma Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	nQx	lx	nDx	nLx	Tx	Ex
Under 1 year	0.007724	100,000	772	99,341	7,275,650	72.8
1-4 years	0.002759	99,228	274	396,252	7,176,309	72.3
5-9 years	0.001542	98,954	153	494,346	6,780,057	68.5
10-14 years	0.001193	98,801	118	493,780	6,285,711	63.6
15-19 years	0.006903	98,683	681	491,890	5,791,931	58.7
20-24 years	0.009369	98,002	918	487,806	5,300,041	54.1
25-29 years	0.009800	97,084	951	483,125	4,812,235	49.6
30-34 years	0.013846	96,133	1,331	477,480	4,329,110	45.0
35-39 years	0.017158	94,802	1,627	470,097	3,851,630	40.6
40-44 years	0.025039	93,175	2,333	460,284	3,381,533	36.3
45-49 years	0.034342	90,842	3,120	446,847	2,921,249	32.2
50-54 years	0.051828	87,722	4,546	427,870	2,474,402	28.2
55-59 years	0.064499	83,176	5,365	403,160	2,046,532	24.6
60-64 years	0.090722	77,811	7,059	372,152	1,643,372	21.1
65-69 years	0.102074	70,752	7,222	336,247	1,271,220	18.0
70-74 years	0.169929	63,530	10,796	291,288	934,973	14.7
75-79 years	0.197796	52,734	10,431	237,842	643,685	12.2
80-84 years	0.303737	42,303	12,849	179,244	405,843	9.6
85+ years	1.000000	29,454	29,454	226,599	226,599	7.7

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A11. Life Tables for American Indians and Alaska Natives, Both Sexes in Phoenix Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.009025	100,000	903	99,230	6,920,143	69.2
1-4 years	0.002391	99,097	237	395,817	6,820,913	68.8
5-9 years	0.001680	98,860	166	493,840	6,425,096	65.0
10-14 years	0.003049	98,694	301	492,896	5,931,256	60.1
15-19 years	0.010187	98,393	1,002	489,721	5,438,360	55.3
20-24 years	0.009832	97,391	957	484,657	4,948,639	50.8
25-29 years	0.013734	96,434	1,324	478,975	4,463,982	46.3
30-34 years	0.018709	95,110	1,779	471,294	3,985,007	41.9
35-39 years	0.026570	93,331	2,480	460,691	3,513,713	37.6
40-44 years	0.031899	90,851	2,898	447,310	3,053,022	33.6
45-49 years	0.045052	87,953	3,962	430,415	2,605,712	29.6
50-54 years	0.062839	83,991	5,278	407,486	2,175,297	25.9
55-59 years	0.069865	78,713	5,499	380,528	1,767,811	22.5
60-64 years	0.109231	73,214	7,997	346,921	1,387,283	18.9
65-69 years	0.146680	65,217	9,566	302,888	1,040,362	16.0
70-74 years	0.204978	55,651	11,407	250,401	737,474	13.3
75-79 years	0.223495	44,244	9,888	196,736	487,073	11.0
80-84 years	0.338440	34,356	11,627	142,578	290,337	8.5
85+ years	1.000000	22,729	22,729	147,759	147,759	6.5

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A12. Life Tables for American Indians and Alaska Natives, Both Sexes in Portland Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.009179	100,000	918	99,217	7,061,195	70.6
1-4 years	0.003139	99,082	311	395,579	6,961,978	70.3
5-9 years	0.002306	98,771	228	493,224	6,566,399	66.5
10-14 years	0.002223	98,543	219	492,297	6,073,175	61.6
15-19 years	0.006765	98,324	665	490,130	5,580,878	56.8
20-24 years	0.010222	97,659	998	485,899	5,090,748	52.1
25-29 years	0.010831	96,661	1,047	480,778	4,604,849	47.6
30-34 years	0.012360	95,614	1,182	475,242	4,124,071	43.1
35-39 years	0.018110	94,432	1,710	468,048	3,648,829	38.6
40-44 years	0.028520	92,722	2,644	457,274	3,180,781	34.3
45-49 years	0.039571	90,078	3,564	441,980	2,723,507	30.2
50-54 years	0.044515	86,514	3,851	423,472	2,281,527	26.4
55-59 years	0.054365	82,663	4,494	402,660	1,858,055	22.5
60-64 years	0.094918	78,169	7,420	373,077	1,455,395	18.6
65-69 years	0.137653	70,749	9,739	330,129	1,082,318	15.3
70-74 years	0.194601	61,010	11,873	276,058	752,189	12.3
75-79 years	0.282164	49,137	13,865	211,354	476,131	9.7
80-84 years	0.397986	35,272	14,038	141,103	264,777	7.5
85+ years	1.000000	21,234	21,234	123,674	123,674	5.8

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A13. Life Tables for American Indians and Alaska Natives, Both Sexes in Tucson Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	nQx	lx	nDx	nLx	Tx	Ex
Under 1 year	0.008630	100,000	863	99,264	6,609,901	66.1
1-4 years	0.002415	99,137	239	395,972	6,510,637	65.7
5-9 years	0.001627	98,898	161	494,044	6,114,665	61.8
10-14 years	0.003678	98,737	363	492,993	5,620,621	56.9
15-19 years	0.010699	98,374	1,053	489,511	5,127,628	52.1
20-24 years	0.011916	97,321	1,160	483,820	4,638,117	47.7
25-29 years	0.018370	96,161	1,766	476,543	4,154,297	43.2
30-34 years	0.026582	94,395	2,509	465,972	3,677,754	39.0
35-39 years	0.036471	91,886	3,351	451,371	3,211,782	35.0
40-44 years	0.038667	88,535	3,423	434,472	2,760,411	31.2
45-49 years	0.057263	85,112	4,874	414,058	2,325,939	27.3
50-54 years	0.090284	80,238	7,244	384,077	1,911,881	23.8
55-59 years	0.075679	72,994	5,524	351,873	1,527,804	20.9
60-64 years	0.151445	67,470	10,218	312,882	1,175,931	17.4
65-69 years	0.146949	57,252	8,413	265,859	863,049	15.1
70-74 years	0.221261	48,839	10,806	217,808	597,190	12.2
75-79 years	0.229000	38,033	8,710	168,598	379,382	10.0
80-84 years	0.421365	29,323	12,356	115,582	210,784	7.2
85+ years	1.000000	16,967	16,967	95,202	95,202	5.6

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A14. Life Tables for American Indian and Alaska Native Males in All 12 IHS Areas, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.010090	100,000	1,009	99,135	6,737,062	67.4
1-4 years	0.003024	98,991	299	395,254	6,637,927	67.1
5-9 years	0.001689	98,692	167	492,996	6,242,673	63.3
10-14 years	0.002461	98,525	242	492,210	5,749,677	58.4
15-19 years	0.011763	98,283	1,156	488,839	5,257,467	53.5
20-24 years	0.015350	97,127	1,491	482,036	4,768,628	49.1
25-29 years	0.015323	95,636	1,465	474,616	4,286,592	44.8
30-34 years	0.020898	94,171	1,968	466,131	3,811,976	40.5
35-39 years	0.027052	92,203	2,494	454,991	3,345,845	36.3
40-44 years	0.036679	89,709	3,290	440,604	2,890,854	32.2
45-49 years	0.048460	86,419	4,188	422,133	2,450,250	28.4
50-54 years	0.063194	82,231	5,196	398,837	2,028,117	24.7
55-59 years	0.081403	77,035	6,271	370,243	1,629,280	21.1
60-64 years	0.115617	70,764	8,181	334,099	1,259,037	17.8
65-69 years	0.148569	62,583	9,298	290,197	924,938	14.8
70-74 years	0.236395	53,285	12,596	235,332	634,741	11.9
75-79 years	0.282005	40,689	11,474	174,542	399,409	9.8
80-84 years	0.390027	29,215	11,395	116,792	224,867	7.7
85+ years	1.000000	17,820	17,820	108,075	108,075	6.1

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A15. Life Tables for American Indian and Alaska Native Males in Aberdeen Area, 1996-1998 (Adjusted [1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.014530	100,000	1,453	98,755	6,123,550	61.2
1-4 years	0.004781	98,547	471	393,069	6,024,795	61.1
5-9 years	0.002043	98,076	200	489,825	5,631,726	57.4
10-14 years	0.003152	97,876	308	488,851	5,141,901	52.5
15-19 years	0.016372	97,568	1,597	484,281	4,653,050	47.7
20-24 years	0.021154	95,971	2,030	474,954	4,168,769	43.4
25-29 years	0.018863	93,941	1,772	465,394	3,693,815	39.3
30-34 years	0.032449	92,169	2,991	453,666	3,228,421	35.0
35-39 years	0.045842	89,178	4,088	436,015	2,774,755	31.1
40-44 years	0.061905	85,090	5,267	412,737	2,338,740	27.5
45-49 years	0.076983	79,823	6,145	384,498	1,926,003	24.1
50-54 years	0.101546	73,678	7,482	350,653	1,541,505	20.9
55-59 years	0.122468	66,196	8,107	311,676	1,190,852	18.0
60-64 years	0.159823	58,089	9,284	268,065	879,176	15.1
65-69 years	0.214774	48,805	10,482	218,414	611,111	12.5
70-74 years	0.307927	38,323	11,801	162,484	392,697	10.2
75-79 years	0.359973	26,522	9,547	108,561	230,213	8.7
80-84 years	0.413172	16,975	7,014	66,850	121,652	7.2
85+ years	1.000000	9,961	9,961	54,802	54,802	5.5

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A16. Life Tables for American Indian and Alaska Native Males in Alaska Area, 1996-1998 (Adjusted [1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.010853	100,000	1,085	99,070	6,631,678	66.3
1-4 years	0.002949	98,915	292	394,967	6,532,608	66.0
5-9 years	0.002432	98,623	240	492,449	6,137,641	62.2
10-14 years	0.003327	98,383	327	491,354	5,645,192	57.4
15-19 years	0.020772	98,056	2,037	485,740	5,153,838	52.6
20-24 years	0.017379	96,019	1,669	476,066	4,668,098	48.6
25-29 years	0.012883	94,350	1,216	468,792	4,192,032	44.4
30-34 years	0.019886	93,134	1,852	461,225	3,723,240	40.0
35-39 years	0.025445	91,282	2,323	450,799	3,262,015	35.7
40-44 years	0.040903	88,959	3,639	436,012	2,811,216	31.6
45-49 years	0.055892	85,320	4,769	415,256	2,375,204	27.8
50-54 years	0.050195	80,551	4,043	393,171	1,959,948	24.3
55-59 years	0.070608	76,508	5,402	369,677	1,566,777	20.5
60-64 years	0.112567	71,106	8,004	336,236	1,197,100	16.8
65-69 years	0.149136	63,102	9,411	292,516	860,864	13.6
70-74 years	0.283265	53,691	15,209	230,912	568,348	10.6
75-79 years	0.323373	38,482	12,444	161,064	337,436	8.8
80-84 years	0.495759	26,038	12,909	97,016	176,372	6.8
85+ years	1.000000	13,129	13,129	79,356	79,356	6.0

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A17. Life Tables for American Indian and Alaska Native Males in Albuquerque Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.008931	100,000	893	99,235	6,930,985	69.3
1-4 years	0.002489	99,107	247	395,841	6,831,750	68.9
5-9 years	0.000778	98,860	77	494,086	6,435,909	65.1
10-14 years	0.002523	98,783	249	493,488	5,941,823	60.2
15-19 years	0.012463	98,534	1,228	489,933	5,448,335	55.3
20-24 years	0.014349	97,306	1,396	483,160	4,958,402	51.0
25-29 years	0.012690	95,910	1,217	476,589	4,475,242	46.7
30-34 years	0.026378	94,693	2,498	467,469	3,998,653	42.2
35-39 years	0.031734	92,195	2,926	453,907	3,531,184	38.3
40-44 years	0.028935	89,269	2,583	440,111	3,077,277	34.5
45-49 years	0.046653	86,686	4,044	423,811	2,637,166	30.4
50-54 years	0.061687	82,642	5,098	401,125	2,213,355	26.8
55-59 years	0.069824	77,544	5,414	374,828	1,812,230	23.4
60-64 years	0.112344	72,130	8,103	341,117	1,437,402	19.9
65-69 years	0.121359	64,027	7,770	301,150	1,096,285	17.1
70-74 years	0.144205	56,257	8,113	261,258	795,135	14.1
75-79 years	0.213375	48,144	10,273	214,842	533,877	11.1
80-84 years	0.302990	37,871	11,475	159,866	319,035	8.4
85+ years	1.000000	26,396	26,396	159,169	159,169	6.0

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A18. Life Tables for American Indian and Alaska Native Males in Bemidji Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.013262	100,000	1,326	98,864	6,255,703	62.6
1-4 years	0.004144	98,674	409	393,725	6,156,839	62.4
5-9 years	0.000000	98,265	0	491,325	5,763,114	58.6
10-14 years	0.004645	98,265	456	490,542	5,271,789	53.6
15-19 years	0.015644	97,809	1,530	485,635	4,781,247	48.9
20-24 years	0.015357	96,279	1,479	477,825	4,295,612	44.6
25-29 years	0.011241	94,800	1,066	471,407	3,817,787	40.3
30-34 years	0.024295	93,734	2,277	463,204	3,346,380	35.7
35-39 years	0.024155	91,457	2,209	451,949	2,883,176	31.5
40-44 years	0.053690	89,248	4,792	434,674	2,431,227	27.2
45-49 years	0.063942	84,456	5,400	409,436	1,996,553	23.6
50-54 years	0.075905	79,056	6,001	381,054	1,587,117	20.1
55-59 years	0.136586	73,055	9,978	341,516	1,206,063	16.5
60-64 years	0.168062	63,077	10,601	289,831	864,547	13.7
65-69 years	0.234174	52,476	12,289	232,354	574,716	11.0
70-74 years	0.387409	40,187	15,569	162,503	342,362	8.5
75-79 years	0.417223	24,618	10,271	97,217	179,859	7.3
80-84 years	0.514002	14,347	7,374	52,785	82,642	5.8
85+ years	1.000000	6,973	6,973	29,857	29,857	4.3

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A19. Life Tables for American Indian and Alaska Native Males in Billings Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.016108	100,000	1,611	98,619	6,459,627	64.6
1-4 years	0.001286	98,389	127	393,254	6,361,008	64.7
5-9 years	0.002847	98,262	280	490,533	5,967,754	60.7
10-14 years	0.002702	97,982	265	489,455	5,477,221	55.9
15-19 years	0.014112	97,717	1,379	485,512	4,987,766	51.0
20-24 years	0.018877	96,338	1,819	477,299	4,502,254	46.7
25-29 years	0.015731	94,519	1,487	468,977	4,024,955	42.6
30-34 years	0.025330	93,032	2,356	459,505	3,555,978	38.2
35-39 years	0.024057	90,676	2,181	448,112	3,096,473	34.1
40-44 years	0.032092	88,495	2,840	435,620	2,648,361	29.9
45-49 years	0.051871	85,655	4,443	417,707	2,212,741	25.8
50-54 years	0.075154	81,212	6,103	391,592	1,795,034	22.1
55-59 years	0.087102	75,109	6,542	359,967	1,403,442	18.7
60-64 years	0.148558	68,567	10,186	318,281	1,043,475	15.2
65-69 years	0.193121	58,381	11,275	264,356	725,194	12.4
70-74 years	0.343047	47,106	16,160	195,639	460,838	9.8
75-79 years	0.353438	30,946	10,937	127,180	265,199	8.6
80-84 years	0.479594	20,009	9,596	75,385	138,019	6.9
85+ years	1.000000	10,413	10,413	62,634	62,634	6.0

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A20. Life Tables for American Indian and Alaska Native Males in California Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.012018	100,000	1,202	98,970	7,144,881	71.4
1-4 years	0.002678	98,798	265	394,563	7,045,911	71.3
5-9 years	0.000000	98,533	0	492,665	6,651,348	67.5
10-14 years	0.000846	98,533	83	492,523	6,158,683	62.5
15-19 years	0.009195	98,450	905	490,233	5,666,160	57.6
20-24 years	0.010057	97,545	981	485,357	5,175,927	53.1
25-29 years	0.011564	96,564	1,117	480,103	4,690,570	48.6
30-34 years	0.012594	95,447	1,202	474,350	4,210,467	44.1
35-39 years	0.015968	94,245	1,505	467,590	3,736,117	39.6
40-44 years	0.025283	92,740	2,345	458,040	3,268,527	35.2
45-49 years	0.037604	90,395	3,399	443,890	2,810,487	31.1
50-54 years	0.038554	86,996	3,354	427,029	2,366,597	27.2
55-59 years	0.064861	83,642	5,425	405,292	1,939,568	23.2
60-64 years	0.096145	78,217	7,520	372,958	1,534,276	19.6
65-69 years	0.110213	70,697	7,792	334,447	1,161,318	16.4
70-74 years	0.195556	62,905	12,301	284,160	826,871	13.1
75-79 years	0.283700	50,604	14,356	216,857	542,711	10.7
80-84 years	0.373340	36,248	13,533	146,462	325,854	9.0
85+ years	1.000000	22,715	22,715	179,392	179,392	7.9

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A21. Life Tables for American Indian and Alaska Native Males in Nashville Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.008346	100,000	835	99,284	7,042,936	70.4
1-4 years	0.003651	99,165	362	395,800	6,943,652	70.0
5-9 years	0.001430	98,803	141	493,624	6,547,852	66.3
10-14 years	0.000506	98,662	50	493,224	6,054,228	61.4
15-19 years	0.005963	98,612	588	491,749	5,561,004	56.4
20-24 years	0.010412	98,024	1,021	487,655	5,069,255	51.7
25-29 years	0.008322	97,003	807	483,052	4,581,600	47.2
30-34 years	0.012369	96,196	1,190	478,124	4,098,548	42.6
35-39 years	0.022954	95,006	2,181	469,762	3,620,424	38.1
40-44 years	0.024168	92,825	2,243	458,711	3,150,662	33.9
45-49 years	0.033756	90,582	3,058	445,636	2,691,951	29.7
50-54 years	0.061381	87,524	5,372	424,885	2,246,315	25.7
55-59 years	0.092136	82,152	7,569	392,737	1,821,430	22.2
60-64 years	0.102340	74,583	7,633	354,515	1,428,693	19.2
65-69 years	0.136924	66,950	9,167	312,352	1,074,178	16.0
70-74 years	0.194884	57,783	11,261	261,117	761,826	13.2
75-79 years	0.235372	46,522	10,950	205,027	500,709	10.8
80-84 years	0.356556	35,572	12,683	145,267	295,682	8.3
85+ years	1.000000	22,889	22,889	150,415	150,415	6.6

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A22. Life Tables for American Indian and Alaska Native Males in Navajo Area, 1996-1998 (Adjusted [1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.007470	100,000	747	99,360	6,804,048	68.0
1-4 years	0.002886	99,253	286	396,333	6,704,688	67.6
5-9 years	0.002170	98,967	215	494,238	6,308,355	63.7
10-14 years	0.002369	98,752	234	493,358	5,814,117	58.9
15-19 years	0.012630	98,518	1,244	489,817	5,320,759	54.0
20-24 years	0.023959	97,274	2,331	480,743	4,830,942	49.7
25-29 years	0.019012	94,943	1,805	470,324	4,350,199	45.8
30-34 years	0.027426	93,138	2,554	459,560	3,879,875	41.7
35-39 years	0.033074	90,584	2,996	445,683	3,420,315	37.8
40-44 years	0.041864	87,588	3,667	429,089	2,974,632	34.0
45-49 years	0.047157	83,921	3,957	410,193	2,545,543	30.3
50-54 years	0.053876	79,964	4,308	389,607	2,135,350	26.7
55-59 years	0.074615	75,656	5,645	364,838	1,745,743	23.1
60-64 years	0.089261	70,011	6,249	334,991	1,380,905	19.7
65-69 years	0.137060	63,762	8,739	297,458	1,045,914	16.4
70-74 years	0.178107	55,023	9,800	250,924	748,456	13.6
75-79 years	0.220261	45,223	9,961	201,023	497,532	11.0
80-84 years	0.317727	35,262	11,204	147,518	296,509	8.4
85+ years	1.000000	24,058	24,058	148,991	148,991	6.2

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A23. Life Tables for American Indian and Alaska Native Males in Oklahoma Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.007701	100,000	770	99,340	6,932,961	69.3
1-4 years	0.002699	99,230	268	396,284	6,833,621	68.9
5-9 years	0.001620	98,962	160	494,366	6,437,337	65.0
10-14 years	0.001253	98,802	124	493,797	5,942,971	60.2
15-19 years	0.007770	98,678	767	491,681	5,449,174	55.2
20-24 years	0.010930	97,911	1,070	486,972	4,957,493	50.6
25-29 years	0.012762	96,841	1,236	481,198	4,470,521	46.2
30-34 years	0.016592	95,605	1,586	474,218	3,989,323	41.7
35-39 years	0.021172	94,019	1,991	465,286	3,515,105	37.4
40-44 years	0.030919	92,028	2,845	453,273	3,049,819	33.1
45-49 years	0.039777	89,183	3,547	437,478	2,596,546	29.1
50-54 years	0.068260	85,636	5,846	414,321	2,159,068	25.2
55-59 years	0.075018	79,790	5,986	384,696	1,744,747	21.9
60-64 years	0.109758	73,804	8,101	349,492	1,360,051	18.4
65-69 years	0.118617	65,703	7,793	309,474	1,010,559	15.4
70-74 years	0.235617	57,910	13,645	255,867	701,085	12.1
75-79 years	0.268581	44,265	11,889	191,377	445,218	10.1
80-84 years	0.383769	32,376	12,425	129,950	253,841	7.8
85+ years	1.000000	19,951	19,951	123,891	123,891	6.2

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A24. Life Tables for American Indian and Alaska Native Males in Phoenix Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.009441	100,000	944	99,191	6,639,842	66.4
1-4 years	0.002900	99,056	287	395,542	6,540,651	66.0
5-9 years	0.002260	98,769	223	493,226	6,145,109	62.2
10-14 years	0.003905	98,546	385	492,069	5,651,883	57.4
15-19 years	0.013527	98,161	1,328	487,845	5,159,814	52.6
20-24 years	0.016312	96,833	1,580	480,351	4,671,969	48.2
25-29 years	0.021724	95,253	2,069	471,232	4,191,618	44.0
30-34 years	0.024084	93,184	2,244	460,534	3,720,386	39.9
35-39 years	0.035020	90,940	3,185	447,006	3,259,852	35.8
40-44 years	0.038615	87,755	3,389	430,595	2,812,846	32.1
45-49 years	0.055996	84,366	4,724	410,593	2,382,251	28.2
50-54 years	0.068848	79,642	5,483	385,212	1,971,658	24.8
55-59 years	0.082656	74,159	6,130	356,198	1,586,446	21.4
60-64 years	0.119299	68,029	8,116	320,581	1,230,248	18.1
65-69 years	0.171730	59,913	10,289	274,426	909,667	15.2
70-74 years	0.216769	49,624	10,757	221,566	635,241	12.8
75-79 years	0.252091	38,867	9,798	169,654	413,675	10.6
80-84 years	0.326963	29,069	9,504	120,921	244,021	8.4
85+ years	1.000000	19,565	19,565	123,100	123,100	6.3

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A25. Life Tables for American Indian and Alaska Native Males in Portland Area, 1996-1998 (Adjusted[1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.009468	100,000	947	99,188	6,791,591	67.9
1-4 years	0.003352	99,053	332	395,424	6,692,403	67.6
5-9 years	0.001981	98,721	196	493,061	6,296,979	63.8
10-14 years	0.002504	98,525	247	492,201	5,803,918	58.9
15-19 years	0.009186	98,278	903	489,377	5,311,717	54.0
20-24 years	0.013107	97,375	1,276	483,795	4,822,340	49.5
25-29 years	0.015313	96,099	1,472	476,914	4,338,545	45.1
30-34 years	0.015119	94,627	1,431	469,700	3,861,631	40.8
35-39 years	0.023400	93,196	2,181	460,712	3,391,931	36.4
40-44 years	0.036098	91,015	3,285	447,146	2,931,219	32.2
45-49 years	0.046083	87,730	4,043	429,033	2,484,073	28.3
50-54 years	0.050339	83,687	4,213	408,448	2,055,040	24.6
55-59 years	0.065889	79,474	5,236	384,902	1,646,592	20.7
60-64 years	0.110384	74,238	8,195	351,435	1,261,690	17.0
65-69 years	0.174176	66,043	11,503	302,109	910,255	13.8
70-74 years	0.233411	54,540	12,730	241,276	608,146	11.2
75-79 years	0.335324	41,810	14,020	173,734	366,870	8.8
80-84 years	0.430602	27,790	11,966	108,199	193,136	6.9
85+ years	1.000000	15,824	15,824	84,937	84,937	5.4

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*

Table A26. Life Tables for American Indian and Alaska Native Males in Tucson Area, 1996-1998 (Adjusted [1])

Period of life between two exact ages stated in years (1)	*Proportion of persons alive at beginning of age interval dying during interval* (2)	*Number of living at beginning of age interval* (3)	*Number dying during age interval* (4)	*Person-years lived in the age interval* (5)	*Total number of person-years lived in this and all subsequent age intervals* (6)	*Average number of years remaining at beginning of age interval* (7)
x to x+n	**nQx**	**lx**	**nDx**	**nLx**	**Tx**	**Ex**
Under 1 year	0.012855	100,000	1,286	98,898	6,159,366	61.6
1-4 years	0.000981	98,714	97	394,626	6,060,468	61.4
5-9 years	0.002145	98,617	212	492,497	5,665,842	57.5
10-14 years	0.007295	98,405	718	490,793	5,173,345	52.6
15-19 years	0.017762	97,687	1,735	484,568	4,682,552	47.9
20-24 years	0.016017	95,952	1,537	476,050	4,197,984	43.8
25-29 years	0.030351	94,415	2,866	465,103	3,721,934	39.4
30-34 years	0.036367	91,549	3,329	449,754	3,256,831	35.6
35-39 years	0.054723	88,220	4,828	429,438	2,807,077	31.8
40-44 years	0.051095	83,392	4,261	406,675	2,377,639	28.5
45-49 years	0.084785	79,131	6,709	379,697	1,970,964	24.9
50-54 years	0.103865	72,422	7,522	344,278	1,591,267	22.0
55-59 years	0.089186	64,900	5,788	310,718	1,246,989	19.2
60-64 years	0.182229	59,112	10,772	269,593	936,271	15.8
65-69 years	0.176415	48,340	8,528	220,863	666,678	13.8
70-74 years	0.266293	39,812	10,602	172,889	445,815	11.2
75-79 years	0.173507	29,210	5,068	133,284	272,926	9.3
80-84 years	0.643738	24,142	15,541	80,772	139,642	5.8
85+ years	1.000000	8,601	8,601	58,870	58,870	6.8

[1] *Counts of death by age, sex, and IHS area of residence were adjusted to compensate for race misreporting on the State death certificate.*